

# SAMPLING DATA

1.	Date Form Completed $5/15/89$
	Account # FILO0555B TDD # F05-8612-077
	EPA 1.D. # ILDO59995423
3.	Site Name, City, State Swift Ag Chem Fairmont City Plant
	Fairmont City, II
4.	Team Leader R. Bayer Sampler J. Dickson
5.	Number and Type of Samples:
	Soil/Sediment 12 Surface Water Ground Water
	Residential/Municipal WellsOther
	Number of Blanks Number of Duplicates
6.	RAS Parameters Requested:
	A/B/N / Pest/PCB / Volatiles / Metals / Cyanide /
	SAS Parameters Requested:
7.	Expected Sampling Date(s): June 27 wo July 18+19 36 31
	Expected Shipping Date(s): June 27w/ July 31
8.	Lab Used For Analysis: Organic - Sou WADS
	Inorganic Soil ENSECO (RMA)
	SAS
9.	Case Number 12464 SAS Number
10.	Airbill Numbers:
	Organic Lab 2734217754 # Coolers / # Samples 12 > 8/2
	Inorganic Lab 2 42603557/3 # Coolers / # Samples 12
	CRL/SAS Lab #'Coolers # Samples
	a flat
	( O Brok

			And the second second			Sv	MIFT Ag. Chen		fa	ir	no	M	C	to	
U. S. EPA	ID NO _	1005	99954	123		FACILITY/OCCU	PANT NAME	,	R	EC	EII	PT	FC	DR	SAMPLES
THE RESIDENCE OF THE PARTY OF T						8		U.S	S. EP				eart	orn	St., Chicago, IL 60604
	PROJ. ACCT. NO. FILOOSSSB					FACILITY/OCCU	PANT ADDRESS			-	(1)	100			
TDD F	05-8	te12-	077			The state of the s		ES	SBS						No. of the second
SPLIT SA	AMPLES A	/A ACCE	PTED(	) DECLI	NED( )	FARIMENT C	Ty, ICC (236)	LATIL	DES/I	ES	-	ш			MATRIX
SAMPLE NUMBER	DATE	TIME	SPLIT SAMPLES (V)	OTR*	ITR#		F SAMPLE LOCATIONS	SEMIVOLATILES	PESTICI	VOLATIL	METALS	CYANIDI			
SII	8/2/87	14:30		EFA 22	MESE 22	SII .	liter east and	-	-	-	1	1			Soil/Sodiment
			10			<b>有300年基本</b>									
								T							
			1												- up
															300
															4
											1				1
			The second												
															11
												Z.		1	/ / / / /
TRANSFE	RRED BY	Drijek	8/2/	189	3:	30	RECEIVED BY:								
(Signatur			(Date)		(Time	)	(Signature)				(Da	te)			(Time)
DISTRIBU	Y	HITE: ELLOW: REEN: INK:	FA FIT	SITE FILE CILITY/OC SAMPLE S. EPA	CCUP ANT MANAGEM	1ENT	TITLE				TEI	EPH	IONE	to-m	

AE/TDD#_G	Switt Hg Ch	em. Fairmont City Plans	FOS -8612-01
	12411	·	
/STATIO	N LOCATION_	51	
G DATE _	8/2/89	SAMPLING TIME	1100
		EFA 12 MEEF 12	
	ANALYSIS	TAG NUMBERS	LOT NUMBER
ide math	● Ext.	5-156301	F9158524
	m/c	30⊋	,,,
wide ned	VOA	303	168200074
	Vo4	304	//
AL DESCR	IPTION AT TIME O	F COLLECTION: brown clo	y with white
MENT REA		COLLECTION UNTIL SHIPMENT:	none
	AL DESCR	ABER 13411  F/STATION LOCATION  G DATE 8/2/89  ANIC TRAFFIC NUMBER  RGANIC TRAFFIC NUMBER  ANALYSIS  ANALY	ANALYSIS TAG NUMBERS  5-/56-30/  M/C 30-3  ANALYSIS TAG NUMBERS  5-/56-30/  MEEF 12  ANALYSIS TAG NUMBERS  5-/56-30/  ANALYSIS TAG NUMBERS  5-/56-30/  MEEF 12  ANALYSIS TAG NUMBERS  5-/56-30/  ANALYSIS TAG NUMBER  ANALYSIS TAG NUMBER  ANALYSIS TAG NUMBER  ANALYSIS TAG NUMBER  ANALYSIS TAG NUMBER

52  SAMPLING TIME  13  13  13  G NUMBERS  -156305  06  07  08	LOT NUMBER   F9158524   11   6820074   11
13 13 G NUMBERS -156305 06 07	LOT NUMBER   F9158524   11   6820074
0 NUMBERS -156305 06 07	F9158524 11 68200074
0 NUMBERS -156305 06 07	F9158524 11 68200074
-156305 06 07	F9158524 11 68200074
-156305 06 07	F9158524 11 68200074
06	11 68200074
07	68200074
09	
	<u> </u>
	1
110N: brown sq	and some small
<del></del>	
ON UNTIL SHIPMENT	: none
· · · · · · · · · · · · · · · · · · ·	
	ON UNTIL SHIPMENT

1	12411	m Fairmont City Plan	
AMPLE #/STATION	N LOCATION	\$3	
AMPLING DATE	8/2/89	SAMPLING TIME	1130
ORGANIC TRAI	FFIC NUMBER RAFFIC NUMBER	EFA 14 MEEF 14	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
3 oz wide math	Ext	5-156309	F 9158524
	m/c	10	1 11
20 ml widemass	V04	//	168200074
IN	voA-   		
white publics	in soil	COLLECTION: <u>clark brown</u> COLLECTION UNTIL SHIPMENT:	<u> </u>
INSTRUMENT REA	DINGS NA		

TE NAME/TODA	Swift Hg Che	m. Fairmont City Plan	+ FOS -8612-
SE NUMBER	12411	,	
MPLE #/STAT	ION LOCATION	54	
MPLING DATE	8/2/89	SAMPLING TIME	1140
	RAFFIC NUMBER TRAFFIC NUMBER	EFA 15 MEEF 16	
) DTTLE	1 ANALYSIS	TAG NUMBERS	LOT NUMBER
02 wide most	1 - 1	5-156313	F9158524
UC WICH MOST	m/c	14	"
uml wide ma		15	13820074
11	VOA	1 /6	1 1/
1			
HYSICAL DES	CRIPTION AT TIME OF	COLLECTION: micaceous	s sand
HYSICAL CHA	NGES FROM TIME OF O	OLLECTION UNTIL SHIPMENT:	none
NSTRUMENT R	EADINGS NA		
CONDUCTIVITY			<u></u>
EMPERATURE			

ASE NUMBER	13411		
AMPLE #/STA	TION LOCATION	95	
AMPLING DAT	E 8/2/89	SAMPLING TIME	12 35
	TRAFFIC NUMBER C TRAFFIC NUMBER	EFA 16 MEEF 16	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
02. wide mo	ULLI EXT	5-156317	F9158524
ı ı	m/c		'/
20 ml unde	· · · · · · · · · · · · · · · · · · ·	19	108200074
. //	VOA	20	11
		· •	
,	SCRIPTION AT TIME OF	COLLECTION: dork brow	un sandy soil
PHYSICAL CH	ANGES FROM TIME OF CO	DLLECTION UNTIL SHIPMENT:	none
INSTRUMENT	READINGS NA		
рН	· · · · · · · · · · · · · · · · · · ·		
CONDUCTIVIT			

SITE NAME/TOD	Swift Ag Che	m. Fairmont City Plan	+ FOS -8612-0
CASE NUMBER	13411		
SAMPLE #/STAT	ION LOCATION	56	
SAMPLING DATE	8/2/89	SAMPLING TIME	1250
•	RAFFIC NUMBER TRAFFIC NUMBER	EFA 17 MEEF 17	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 07 widence	11 EXt.	5-156321	F9158524
.	m/c	22	)1
romp wide mo	14 VOQ	1 23	168200074
11	1 VOA	1 24	1/
PHYSICAL DES	CRIPTION AT TIME OF	COLLECTION: dark gr	rey-green sitt
PHYSICAL CHA	NGES FROM TIME OF C	OLLECTION UNTIL SHIPMENT	: <u>none</u>
INSTRUMENT A	EADINGS NA		
рн			
CONDUCTIVITY	·		
1			

ITE NAME/TODI	Swift Hg Che	m. tairmont City Plan	+ FOS -86/20
ASE NUMBER _	12411	·	
AMPLE #/STATIO	N LOCATION	57	
SAMPLING DATE	8/2/89	SAMPLING TIME	1305
ORGANIC TRA	FFIC NUMBER TAFFIC NUMBER	EFA 18 MEEF 18	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
3 02 widemass	Ext	5-156 325	F9158524
1	Im/c	26	
20 ml wide math	IVOA	27	168200074
	VOA	28	1 /1
	[		
:	<u> </u>		
PHYSICAL DESCR	IPTION AT TIME OF	COLLECTION: durk gray-	green sitt
PHYSICAL CHANG	ES FROM TIME OF (	COLLECTION UNTIL SHIPMENT:	none
INSTRUMENT REA	DINGS <u>N.A</u>	<del></del>	· · · · · · · · · · · · · · · · · · ·
PH !			
CONDUCTIVITY		· · · · · · · · · · · · · · · · · · ·	
TEMPERATURE			<del></del>
1			

ASE NUMBER	13411		
AMPLE #/STA	ATION LOCATION	58	
AMPLING DAT	TE 8/2/89	SAMPLING TIME	1315
ORGANIC	TRAFFIC NUMBER	EFA 19	
	IC TRAFFIC NUMBER	MEEF 19	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
oz wid me		5-156329	F9158524
\1	1 m/c	30	
ml wide me		31	P8202184
	VOA	32	//
		1	
!			
<u>i</u> .			
i			
PHYSICAL DE	SCRIPTION AT TIME OF	COLLECTION: dork grey	green silt.
	·	·	<u>-</u>
<u> </u>		<del></del>	
PHYSICAL C	HANGES FROM TIME OF C	OLLECTION UNTIL SHIPMENT	: none
<u> </u>			
INSTRUMENT	READINGS NA		
РН	· · · · · · · · · · · · · · · · · · ·	<del></del>	
CONDUCTIVI	TY		

ASE NUMBER	13411	·	
SAMPLE #/STA	TION LOCATION	59	
SAMPLING DAT	E 8/2/89	SAMPLING TIME	1400
ORGANIC	TRAFFIC NUMBER	EFA 20	
1	C TRAFFIC NUMBER	MEEF 20	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
St. Wish mod		5-156 333	F915852
OC. W.Ka MOS	m/c	34	1 11
me wicle mou	- T - 1 - C - T	35	78202/84
11	VOA	36	),
	Ì		
DUYCICAL DE	COLOTION AT TIME OF	COLLECTION. A.	1 2 4 2 14
PHISICAL DE	SCRIPTION AT TIME OF	COLLECTION: med gray	Sanoy SIIT
PHYSICAL CH	ANGES FROM TIME OF CO	DLLECTION UNTIL SHIPMENT:	none
INSTRUMENT	READINGS NA		
рн			
CONDUCTIVIT	· · · · · · · · · · · · · · · · · · ·		
TEMPERATURE			

i			FOS -8612-
ASE NUMBER _	12411		
AMPLE #/STATIO	ON LOCATION	\$10	
AMPLING DATE	8/2/89	SAMPLING TIME	1410
1	AFFIC NUMBER TRAFFIC NUMBER	EFA 21 MEEF 21	
OTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
2 wide mouth	EX+	5-156 337	F 9158524
17	Im/C		11
ml wide most4	VOA	39	D8252099
11.	VOA	40	D 825 7134
	·		
PHYSICAL DESCR Sand Y Sitt	RIPTION AT TIME OF	COLLECTION: grey 10 /191	ht gray mottled
HYSICAL CHANG	GES FROM TIME OF CO	DLLECTION UNTIL SHIPMENT:	none
INSTRUMENT REA	ADINGS NA		
CONDUCTIVITY			
1			and and the second of the seco

AMPLE 1/STATION LOCATION  SAMPLING DATE 8/2/89  SAMPLING TIME 1430  ORGANIC TRAFFIC NUMBER  INORGANIC TRAFFIC NUMBER  MEEF 22  BOTTLE  ANALYSIS  TAG NUMBERS  LOT NUMBER  02 widemath   Ext   S-156341   F9/58524	SITE NAME/TO	DM Swift Hg Ch	em. Fairmont City Plan	t. FOS -8612-C
ORGANIC TRAFFIC NUMBER  INORGANIC TRAFFIC NUMBER  BOTTLE  ANALYSIS  TAG NUMBERS  LOT NUMBER  02 Willemarks Ext  Oml wide marks 1/0A  VOA  PHYSICAL DESCRIPTION AT TIME OF COLLECTION: black 5://t  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: 000C  INSTRUMENT READINGS  NA  CONDUCTIVITY	ASE NUMBER	12411	·	
ORGANIC TRAFFIC NUMBER  INORGANIC TRAFFIC NUMBER  BOTTLE  ANALYSIS  TAG NUMBERS  LOT NUMBER  PHYSICAL CHANGES FROM TIME OF COLLECTION: black sith  INSTRUMENT READINGS  NA  CONDUCTIVITY	AMPLE #/STA	ATION LOCATION	511	
INORGANIC TRAFFIC NUMBER MEEF 22  BOTTLE ANALYSIS TAG NUMBERS LOT NUMBER  02 wds mach FXt 5-156391 F9/58 529  1 M/C 42 11  D ml w de mach WAA 43 D820205.79  PHYSICAL DESCRIPTION AT TIME OF COLLECTION: black silt  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NORE  INSTRUMENT READINGS NA  PH  CONDUCTIVITY	AMPLING DA	TE 8/2/89	SAMPLING TIME	1430
INORGANIC TRAFFIC NUMBER MEEF 22  BOTTLE ANALYSIS TAG NUMBERS LOT NUMBER  02 was marty Ext 5-156391 F 9/58 529  1 M/C 42 11  0 ml wate marty WAA 43 D820205.79  PHYSICAL DESCRIPTION AT TIME OF COLLECTION: black 5://  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NORE  INSTRUMENT READINGS NA  PH  CONDUCTIVITY	ORGANIC	TRAFFIC NUMBER	EFA 72	
DEWDERNOOMS   EXT   5-156341   F9/58529   1   1   1   1   1   1   1   1   1	INORGAN	IC TRAFFIC NUMBER	MEEF 22	
OZ W demody   EXT   S - 156341   F 9/58 S29  IM/C   42   11  D ml w demody   VOA   43   D820205.7  PHYSICAL DESCRIPTION AT TIME OF COLLECTION: black silt  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NO DE  INSTRUMENT READINGS   NA    PH CONDUCTIVITY				
OZ WZEMOCH FXT   5-156341   F9158 S24  IM/C   42   11  D ml with moch   VOA   43   D820205.7  PHYSICAL CHANGES FROM TIME OF COLLECTION: black sitt  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none  INSTRUMENT READINGS NA  pH  CONDUCTIVITY	BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
PHYSICAL CHANGES FROM TIME OF COLLECTION: black sith  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none  INSTRUMENT READINGS NA  pH  CONDUCTIVITY		16 IEXT	15-156341	F9158524
PHYSICAL CHANGES FROM TIME OF COLLECTION: black sith  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE  INSTRUMENT READINGS NA  PH  CONDUCTIVITY	( )		1 42	I
PHYSICAL CHANGES FROM TIME OF COLLECTION: black sith  PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: none  INSTRUMENT READINGS NA  PH  CONDUCTIVITY	omlwide me	AS WOA	43	D8202184
PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: <u>none</u> INSTRUMENT READINGS <u>NA</u> PH  CONDUCTIVITY	11		44	D820205.7
PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: <u>none</u> INSTRUMENT READINGS <u>NA</u> PH  CONDUCTIVITY				
PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: <u>none</u> INSTRUMENT READINGS <u>NA</u> PH  CONDUCTIVITY			·	
INSTRUMENT READINGS NA PH CONDUCTIVITY	PHYSICAL DE	SCRIPTION AT TIME OF	COLLECTION: black silt	
CONDUCTIVITY	PHYSICAL C	LANGES FROM TIME OF	COLLECTION UNTIL SHIPMENT:	none
CONDUCTIVITY	. I	· · · · · · · · · · · · · · · · · · ·	· .	
		READINGS NA		
TEMPERATURE	CONDUCTIVI	TY		
	TEMPERATUR	E		

ASE NUMBER	12411		
		A (0	
AMPLE #/STA	TION LOCATION	512	
SAMPLING DAT	E 8/2/89	SAMPLING TIME	1435
ORGANIC	TRAFFIC NUMBER	EFA 23	
I NORGAN	C TRAFFIC NUMBER	MEEF 23	
		ſ	
BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
oz widimo	46   EXT	15-156345	F9158524
<b>,</b> ,	lm/c	46	11
, int ce de mo	HIVOA	47	188200074
	WA	48	D8202164
	·		
	1		
	<u></u>		
			<u> </u>
PHYSICAL DE	SCRIPTION AT TIME OF	COLLECTION: brown - to	N Joany Soil
will some	1		
		<u> </u>	
PHYSICAL CH	ANGES FROM TIME OF CO	DLLECTION UNTIL SHIPMENT:	none
		· · · · · · · · · · · · · · · · · · ·	
INSTRUMENT	READINGS NA.	,	
рН			
<u> conoύστινι</u> 1	Ύ		
TEMPÉRATURE			

U. S. EPA ID NO ILD 059995423			Swift Ag Chem Fairment			RECEIPT FOR SAMPLES U.S. EPA, 230 S. Dearborn St., Chicago, IL 60604									
PROJ. AC	CT. NO.	FILO	055	SB		City Plant		0.	S. Er		230		eart	porn	St., Chicago, IL 60604
TDD F	05 - 8		-077 PTED(	) DECL	INED(✓)	FACILITY/OCCUPS SWIFT AG CHET 2501 N. Kings Fairment Cit	Hwy	OLATILES	SES/PCBS	ES					MATRIX
SAMPLE NUMBER	DATE	TIME	SPLIT SAMPLES	OTR*	ITR#	DESCRIPTION OF	SAMPLE LOCATIONS	SEMIVOL	PESTICIDES	VOLATILI	METALS	CYANIDE			HAINIA
51	8/2 89	11:00		EFA 1	MEEFIS	51	3	/	V	V	V	Y			soil
52	8/2/89	11:10		EFA 13	MEEF 13	52		1	V	V	V	V			Soil
:53	8 12 189	H:30		EFA 14	MEEF 14	53		V	V	V	V	1			soid
.54	8/2/89	11:40		EFA 15	MEEF 15	54		V	V	1	V	1			soil
55	8/2/89	19:55		EFA 14	MEEF 16	-55		V	V	V	7	V			soil
56	8/2/87	12.50		EFA 17	MEEF 17	56		V	V	٧	V	1			scilled
57	812 189	13.05		EFA 18	MEEF 18	57		/	V	V	1	1			soil/sed
58	8 2 189	13:15		EFA 19	MEEF 19	58		/	V	1	Y	Y			Soil/sed
59	8 2 89	14:00		EFA 20	MEEF 20	59		V	V	V	V	1			soil and
510	8 2 89	1410			MEEF 21	510		V	V	V	V	1			soil ped
SH	8 2 89			THE RESERVE THE PARTY NAMED IN	MEEF 22			Y	V	1	1	1			sort sed
512	8/2/89	14:35		EFA 23	MFEF 23	512		V	V	V	V	V			soil
					THE STATE OF			-						200	
	7														
TRANSFE	RRED BY						RECEIVED BY:								
	Mina	Paye	1 8/2	189	15	15									
(Signatur			(Date)		(Time		(Signature)				-	ate)			(Time)
DISTRIBU	Y	'HITE: ELLOW: REEN: INK:	FA FIT		E CCUP ANT MANAGEM	1ENT	TITLE				TE	LEPI	HONE		

## ILLINOIS ...R POLLUTION CONTROL BOARD

#### cc 80 FORM B - SOURCE OPERATION DATA

1. D. NO

SOURCE OPERATION NUMBER	06	(	cc_l6	
exit air	of PROCESS EQUIPMENT. Olling emissions from react	or - agglomerator comb		0 CO.
		Car	d Cols.	5111
Nominal 12-12-12 as a ty	pical large tonnage grade	7	8 :9 BEC FACTOR	
	RATION FOR NORMAL THROUGHPUT CAPA	CITY. NORMAL OPERATION IS 2	OTPH OF MAXIMUM CAPACITY. 100	)
MATERIAL	STARTING WEIGHT	MATERIAL	STARTING WEIGHT	
Ammonium Sulfate	16.760 lbs./hr.	5 Anhydrous Ammonia	1,920 lbs./hr.	
2 Triple Super	920 lbs./hr.	6 Sulfuric Acid	2,160 lbs./hr.	
□Potassium Chloride	8.000 lbs./hr.	7 Phosphoric Acid	6.800 lbs./hr.	
* Neutro-Phos	2,000 lbs./hr.	8 Filler	2.700 lbs./hr.	
oc 19 - 1 X Solid, particulate matter	cc 20 - 3 🔀 Gases, vapors or fumes cc 21 - 4 🔀 Odors of any type	cc 23 - 6 None	1 x From Stack 2 At Ground Level 25 26 27 28 3 From Vents or other C 3 8 (FT.) STACK HEIGHT ABOVE GRAD	
PROCESS WEIGHT RATE COPERATION TO	ME <del> </del>	LLECTION EQU INLET LOADING	IPMENT	<u> </u>
Co. 25 20 31 32 33 34 35 Ce. 36 37  L. OPERATION 15  Y. Continuous	33 INLET GAS RATE G.  6 (SCFM) GRAINS/SC  9,000 GRAINS/SC  1 50 51 52 53 54 55 56 57	To wet 39 40 4	41   42   43   44   (See Code Below)   44   48   49   49   49   49   49   49	9 0
M. MEASURED - EST MATED - EMISSIONS TO ATMOSPHERE (		2 ALLOWABLE EMISSIONS TO ATMOSP		2.
item A. Describe your source operation of B. List all starting raw materials of C. Check appropriate boxes and ent D. Indicate the total weight rate of uid and gaseous fuels and comb.  E. Enter normal operational hours of Enter rate of gas inlet to collect G&H. Enter particulate concentration of I&J. List collection equipment serving 01-Absorber 03-Catalytic brown of 02-Adsorber 04-Afterburner K. Enter estimate of collector efficials.	herged, including solid fuels. Specify lbs/ ter discharge information.  all materials introduced into the source op- ustion air will not. Include recycled materi- ber day for this source operation.  tion equipment in standard cubic feet per mo- of gas inlet to collection equipment in eith- ing the process, code as follows:  urner 05—Spray Chamber 07—Packe 06—Scrubber 08—Ventur- iency (%)	/hr. For batch operations specify liberation. Solid fuels charged will be ial. —— 80% of production inute. er column G or H. d Tower 09—Settling Chamber i Scrubber 10—Cyclone	os. e considered as part of the process weight ! n•(	Mask:
M. Enter estimate of particulates er	itch operation, enter hours per batch cycle. mitted to the atmosphere from this operation able 1. Chapter III of the Regulations	n in lbs/hr. Cirçle Measured or Est	imated.	

## ILLINOIS POLLUTION CONTROL BOARD

#### cc 80 FORM B - SOURCE OPERATION DATA

cc 79 = CARD IDENTIFICATION - PUNCH: 9

SOURCE OPERATION NUMBER \_\_

DESCRIBE SOURCE OPERATION AND TYPE OF PROCESS EQUIPMENT.

i.D. NO cc 1 - 6

OF FICE USE ONLY CARD COL

<b>M</b>					10 11 12 1
Existing equipment for co	ontrolling emissions from o	dryer-cooler combined	exit a	III BEC NUM	
Nominal 12-12-12 as a tyr	vical large tonnage grade	<b>h</b> ===	ard Cals.	BEC FAC	14 15 16 1
			7 8 9		
B. RAW MATERIALS USED IN SOURCE OPER	<del></del>	,,	2 OTH %	OF MAXIMUM CAPACIT	
MATERIAL	STARTING WEIGHT	MATERIAL		STARTING W	
Ammonium Sulfate	16,760 lbs./hr.	5. Anhydrous Ammonia		1,920 lbs.,	<del></del>
Control Triple Super	920 lbs./hr.	6 Sulfuric Acid	. ]	2,160 lbs.,	<u>/hr.                                    </u>
Potassium Chloride	8,000 lbs./hr.	7 Phosphoric Acid		6,800 lbs.	
Neutro-Phos	2.000 lbs./hr.	8 Filler		2,700 lbs.	والمستجد والمستجد والمراج
EMISSION: Check types of discharge that can po	ssibly be emitted from process or equipment directly	y to atmosphere through stacks or ducts.	1	RCE OPERATION DISCHAR	the state of the s
众 cc 13 - 1 🕱 Solid, particulate matter	cc 20 - 3 🕱 Gases, vapors or fumes	cc 22 - 5 🔀 Mists or Aerosols	1 🗙 From	<del></del>	
		<del>-</del>	25   26   27	28 3 From Ve	ints or other Opening
g cc 19 - 2 🔀 Steam	cc 21 - 4 🗷 Odors of any type	cc 23 - 6 None	3	8 (FT.) STACK HEIGHT	ABOVE GRADE
D. PROCESS WEIGHT RATE E OPERATION TIM	C 0	LLECTION EQL	JIPM	ENT	K. (*)
nrs/ca	<u>y</u>	INLET LOADING		PRIMARY COLLECTOR:	Card Ca
cc- 29 30 31 32 33 34 35 cc- 36 37	<del></del>	To dryer-cooler 39 40	41 42 43	(See Code Below)	45 45 (4
72000 1:	6 (SCFM) GRAINS/SCF	_ · · · · I I	3 1	0	90.
L OPERATION IS	32,000 CARD COLS			SECONDARY COLLECTOR	
X Continuous  Batch  48 49	<del></del>	<u> </u>		(See Code Below	
Cycle per batch (hrs.),	lbs/1000 lbs	GAS · · · · · · · · · · · · · · · · · ·		2	9:4
M. MEASURED	67 68 69 70 71		<del></del>	<del>15 :</del>	72 73 74 75
ESTIMATED - EMISSIONS TO ATMOSPHERE (I	>s/hr)	36 ALLOWABLE EMISSIONS TO ATMO	SPHERE (Ibs	/hr.)	1:5.3
NSTRUCTIONS: (NOTE - Dotted lines in		<del></del>	comments )		
tem A. Describe your source operation ar		intollar specis for intecertaincous	COMMITTED 3. ,		
	arged, including solid fuels. Specify lbs/	hr. For batch operations specify	lbs.		
<ul> <li>C. Check appropriate boxes and ente</li> </ul>					
D. Indicate the total weight rate of a	Il materials introduced into the source ope	eration. Solid fuels charged will	be conside	red as part of the proce	ss weight but lie
	stion air will not. Include recycled materi	al 80% or producti	on.		
E. Enter normal operational hours pe	er day for this source operation. on equipment in standard cubic feet per mi	auto.		•	
	gas inlet to collection equipment in eithe				
I&J. List collection equipment serving	· ·	•			
01-Absorber 03-Catalytic bu	rner 05-Spray Chamber 07-Packed		11-Mul	lticlone 13-Baghous	se 15-Maskin
02-Adsorber 04-Afterburner	·	Scrubber 10-Cyclone	. 12– Rot	oclone 14-Precipit	tator 16-Other
K. Enter estimate of collector efficie					
	ch operation, enter hours per batch cycle. itted to the atmosphere from this operation	in lbs/hr Circle Measured or F	stimated.		į
	the 1. Chapter III of the Regulations	in 123, in. Circle Medabled of E	Ç., ji, Q. CG.		١

# ILLINOIS AIR POLLUTION CONTROL BOARD

#### cc 80 FORM B - SOURCE OPERATION DATA

I.D. NO

SOURCE OPERATION NUMBER _		TEICATION = FONCTIcc-1	0-
A. DESCRIBE SOURCE OPERATION AND TYPE C			OFFICE USE ONLY CAPO CO
	lling emissions from react	tor - agglomerator combine	ed <u>10/11/12</u>
exit air			BEC NUMBER
		Card Co	
Acminal 12-12-12 as a type	pical large tonnage grade	7 3 :	9 BEC FACTOR
B RAY MATERIALS USED IN SOURCE OPE	RATION FOR NORMAL THROUGHPUT CAPA	ACITY. NORMAL OPERATION IS 2 07	PH " OF MAXIMUM CAPACITY. 100
MATERIAL	STARTING WEIGHT	MATERIAL	STARTING WEIGHT
i commonium Sulfate	16,760 lbs./hr.	5 Anhydrous Ammonia	1,920 lbs./hr.
1 Triple Super	920 lbs./hr.	6 Sulfuric Acid	2,160 lbs./hr.
1 Potassium Chloride	8.000 lbs./br.	7 Phosphoric Acid	6.800 lbs./hr.
Acutro-Phos	2,000 lbs./br.	∥8 Filler	2.700 lbs./hr.
Co., EMISSIGN: Check types of discharge that can p	ossibly be emitted from process or equipment direc		SOURCE OPERATION DISCHARGES - cc 24
ce 18 + 1 X Solid, particulate matter	cc 20 - 3 🔀 Gases, vapors or fumes	cc 22 - 5 Mists or Aerosols	Eroin Stack 2 At Ground Level
	· · · · · · · · · · · · · · · · · · ·	25 26	3 From Vents or other Commit
Oca 19 - 2 X Steem .	cc 21 - 4 🔀 Odors of any type	cc 23 - 6 None	3 8 (FT.) STACK HEIGHT ABOVE GRADE
D. PROCESS WEIGHT RATE EOPERATION TIME (154. 51.)	c 0	LLECTION EQUIP	MENT
	Sy F.	INLET LOADING	IL PRIMARY COLLECTOR: THE C.
cc. 29   23   31   32   33   34   35	133 INLET GAS RATE G.	39 40 (41 4	2 43 44 (See Cade Balan) (45,4)
	GRAINS/SC	To wet 0.285	9.0
L. OF LEATION 48 26 8 CO.C.	OLS. CARD COLS		J. SECONDARY COLLECTOR:
X Continuous 48 49	50 51 52 53 54 55 56 57 H.	38 37 50 0	62   63 (See Code Beio w)
Cysie per batch (hrs.)		s GAS · · · · · · · · · · · · · · · · · · ·	(See Cace Balo.)
MU MEASURED -1	67 68 69 70 7	71 N.	72 73 74 77
EST MATED - EMISSIONS TO ATMOSPHERE (		ALLOWABLE EMISSIONS TO ATMOSPHER	E (lbs/hr.)
INSTRUCTIONS: (NOTE - Dotted lines in	adicate position of decimal point. Use as	dditional sheets for miscellaneous commo	\
item A. Describe your source operation a			/.3
	larged, including solid fuels. Specify lbs	hr. For batch operations specify lbs.	
<ul> <li>C. Chack appropriate boxes and enter</li> </ul>			
D. Indicate the total weight rate of a	all materials introduced into the source o	peration. Solid fuels charged will be cor	nsidered as part of the process weight but li
	stion air will not. Include recycled mate	rial 80% of production.	
E. Enter normal operational hours po			
GAH. Enter particulate concentration of	on equipment in standard cubic feet per r figas inlet to collection equipment in eith	ninute. ner column G or H.	
18.J. List collection equipment serving			
	irner 05-Spray Chamber 07-Packe	od Tower 09-Sattling Chamber 11	-Multiclane 13-Baghouse 15-Maski
02-Adsorberg 04-Afterburner	06 - Scrubber 08 - Ventu		R-Rotoclone 14-Precipitator 16-Cinar
K. Enter estimate of collector efficient			
the state of the s	ich approxical pater house per batch circle		

## ILLINOIS AIR POLLUTION CONTR' OARD

#### cc 80 FORM B - SOUNCE OPERATION DATA

41.D. NO

SOURCE OPERATION NUMBER	<u>12</u> cc 79 =	CARD IDENTI	FICATION - PUNCH: 9	cc <u>1 – 6</u>	<u> </u>		
DESCRIBE SOURCE OPERATION AND TYPE	OF PROCESS EQUIPMENT	·			<del></del>	F FICE USE ONLY	<del></del>
Existing equipment for of Nominal 12-12-12 as a ty		•-	dryer-cooler comb	Cord Cols.	air	BEC NUMBER	10 11 12 13 -a   14 15 16 17
RAW MATERIALS USED IN SOURCE OPE			CITY. NORMAL OPERATION	1 15 2 0 TH	OF MAXIMUM	CAPACITY.	100
MATERIAL	STARTING WE		MATERIA			TARTING WEIGH	
Ammonium Sulfate	16,760 lbs./h	r.	5 Anhydrous Amm		1,92	0 lbs./hr.	•
OTriple Super	920 lbs,/h	r.	6 Sulfuric Acid	<u> </u>	2,16	0 lbs./hr.	•
_Potassium Chloride	8,000 lbs./h		7 Phosphoric Ac	id	6.80	0 lbs./hr.	
Neutro-Phos  - CAMISSION: Check types of discharge that con	2.000 lbs./b		8 Filler			O lbs./hr.	
Steem	cc 20 - 3 🗶 Gases, vapors or cc 21 - 4 🔀 Odors of any type	•	cc 22 - 5 🔀 Mists or Aer	25 26 27	28 (FT.) STAC	At Ground Lev	other Goening E GRADE
PROCESS WEIGHT RATE OPERATION TO	IME F.	, c o	L L E C T I O N	EQUIPM			K. (59) Cart Calsu
7 2 0 0 0 1 2 CO.	7 33 INLET GAS RATE L 6 (SCFM) 32,000 COLS CARD COLS	G. GRAINS/SCF	To dryer-cooler dry cyclones.	9.3 1	PRIMARY CC: 44 (See C  0 SECONDARY (	ode Bolowi	901
Botch Cycle per baich (hrs.).	9:50 51 52 53 54 55 56 57 3 2 0 3 0	11: (1000)	GAS	67	63 (See C	ode Balowi .	9.4
MEASURED		67 68 69 70 71	N.	1 1 1 4	2	72	73 74 75 76
ESTIMATED - EMISSIONS TO ATMOSPHERE	(lbs/hr)	1 5	36 ALLOWABLE EMISSIONS T	O AŢŅOSPHERE (16	s/hr.)		1 5.30
ISTRUCTIONS: (NOTE - Dotted lines em A. Describe your source operation B. List all starting raw materials of	and type of process equipme charged, including solid fuel	ent.		•	)		12.71
C. Check appropriate boxes and en D. Indicate the total weight rate of uid and gaseous fuels and comb E. Enter normal operational hours p F. Enter rate of gas inlet to collect	fall materials introduced int justion air will not. Include per day for this source opera	recycled materi ition.	ol 80% of prod		ered as part of	the process we	eight but lige
G&H. Enter particulate concentration	of gas inlet to collection eq	uipment in eithe					
1&J. List collection equipment serving 01-Absorber 03-Catalytic be 02-Adsorber 04-Afterburner	ourner 05-Spray Chamber r 06-Scrubber				_	3—Bachause 4—Precipitator	15-Masking 16-Orher
Enter estimate of collector effice.  Check type of operation. For both	atch ope <mark>ration, enter hours</mark> p						1
Mr. Enter estimate of particulates e			n in Ibs/hr. Circle Measur	ed or Estimated.		-	į

# ILLINOIS AIR POLLUTION CONTROL BOARD

#### cc 80 FORM B - SOURCE OPERATION DATA

I.D. NO

ထ	SOURCE OPERATION NUMBER 0	6 cc 79 =	CARD ID ENTI	FICATION - PUNCH: 9	cc 1 - 6		
	DESCRIBE SOURCE OPERATION AND TYPE OF New equipment for controll		om reacto	or - agglomerator	combined	OFFICE USE	ONLY CAFS CO
Prize.	exit air					BECNU	MSER   1.
	Nominal 12-12-12 as a typi	cal large tonna	geograde		7 8 9	BEC FA	CTOR
8	RAY MATERIALS USED IN SOURCE OPERA	TION FOR NORMAL THROL	IGHPUT CAPAC	CITY. NORMAL OPERATION	115 2 0 TPH %	OF MAXIMUM CAPAC	ITY. 100.
9	MATERIAL	STARTING WEI	ЗН Т	MATERIA	L	STARTING	WEIGHT
$\dot{\mathbf{a}}$	Ammonium Sulfate	16,760 lbs./	hr.	5 Anhydrous Amm		1,920 11	s./hr.
2.	Triple Super	920 lbs./	hr.	6 Sulfuric Acid	<u> </u>	2,160 11	os./hr.
<u>9</u>	Potassium Chloride	8,000 lbs./	br.	7. Phosphoric Ac	id	6,800 11	s./hr.
. د	Neutro-Phos	2,000 lbs./	hr.	8. Filler		2,700 11	
<del>سر</del> .	EMISSION: Check types of discharge that can poss	ibly be emitted from process or	equipment directly	y to almosphere through stacks of	• • • •	RCE OPERATION SISCHA	
<b>?</b>	ec 18 - 1 $\overline{\mathbf{X}}$ Solid, particulate matter	cc 20 - 3 😠 Gases, vapors or f	umes .	cc 22 - 5 🔀 Mists or Aero	osols 1 X From	· ·	and Level ents or other Carrier
<u> </u>	ec 19 - 2 🔀 Sreem .	cc 21 - 4 🗓 Odors of any type		cc 23 - 6 None	25 26 27	43.	
D.	PROCESS WEIGHT RATE OPERATION TIME		c o		EQUIPM	ЕНТ	* 1
	RESTERY	_  F		INLET LOADING		PRIMARY COLLECTOR:	
cc	- 29 20 31 32 33 24 35 cc- 36 37 33	-1 1	G.		39 40 41 42 43	(See Code Beloni	45,45
<u>-</u> -	7 2 0 6 0 1 6	(SCFM) 9,000	GRAINS/SCF	To wetscrubber	0.285 0	6	9 0
<u>.</u>	OF ERATION 48 26 8 CO. COL		н.			SECONDARY COLLECTS	
	3 a tich 48 49 : 50	51 52 53 54 55 56 57			<del> </del>	(See Code Beiow)	<u></u>
	Cycle per batch (hrs.).	1 9 000	lbs/1000 lbs	GAS			· ·
м.	MEASURED -		7 68 69 70 71	N.			72 73 74 77
	EST MATED - EMISSIONS TO ATMOSPHERE (164)	(hr)	2	ALLOWABLE EMISSIONS TO	O ATMOSPHERE (16s	/hr.)	1/2
1.8	STRUCTIONS: (NOTE - Doited lines indi	cate position of decimal r	point. Use add	litional sheets for miscella	neous comments.	)	7.5
	em. A. Describe your source operation and	type of process equipmen	t.				/-3
	B. List all starting raw materials char		. Specify lbs/	hr. For batch operations s	pecify lbs.		
. •	C. Chack appropriate boxes and enter	discharge information.			1		
	D. Indicate the total weight rate of all	materials introduced into	the source ope	eration. Solid tuels charge	d will be conside	red as part of the proce	ess weight but i
	uid and gaseous fuels and combusti E. Enter normal operational hours per			al. == 80% OI prod	uction.		
	F. Enter rate of gas inlet to collection			oute			:
<b>-</b> ₽	58H. Enter particulate concentration of g	as inlet to collection equ	ipment in eithe	r column G or H.		·	
	1&J. List collection equipment serving the			ו די או מו מו	11		
	01-Absorber 03-Catalytic burns 02-Adsorber 04-Afterburner K. Enter estimate of collector efficience	06 - Scrubber	07 - Packed 08 — Venturi	Tower 09-Sattling Ch Scrubber 10-Cyclone	ambor 11-Mul 12-Rot	ticlone 13-Baghou oclone 14-Precipi	
	L. Chack type of operation. For batch		r botch cycle.	. 11 . 4	t return a t		



inc.

2350 Seventh Blvd.

St. Louis, Missouri 63104

IL-55-01 Chemists

Engineers

Metallurgists

314/PRospect 1-7111

ALLAN M. SIEGEL, Director

Report No. 25-1-235 (b)

March 12, 1971

Determination of stack emissions at Swift Agricultural Chemical Corp., Fairmont, Illinois.

Swift Agricultural Chemical Corp. 2 North Riverside Plaza Chicago, Illinois 60606

P. O. 220-295

Attn: Mr. E. N. Mortenson

#### TEST REPORT

On March 4, 1971, additional tests were conducted at Swift Agricultural Chemical Corporation, Fairmont, Illinois.

Background on the plant systems and testing procedures are given in two previous I.T.L. reports, No. 25-1-235 and No. 25-1-235(a). These tests were performed in the presence of Mr. A. Telford and Mr. C. Beck of the Illinois Enviornmental Protection Agency.

Due to very low ammonia inventories at the plant on the test date, it was decided that the second test on each scrubber would be reduced to one-half hour duration and sampled on the basis of the velocity data collected for the first sampling period.

Respectfully submitted,

INDUSTRIAL TESTING LABORATORIES, INC.

Allan M. Siegel, Director

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## TESTING LABORATORIES

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ALLAN M. SIEGEL, Director

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Report No. 25-1-235(b)

Impingers

Page

#### SUMMARY

Location (Scrubber for)	Granulator	Granulator
Test Number	A	В
Duration, hrs.	1	12
Particulate Emissions *		
Total Particulate, lbs/hr Total Particulate, grains/SCF Fume, lb/hr Fume Weight Percent	1.07 0.025 0.016 1.5	0.90 0.021 0.013 1.4
* Standard Conditions 70°F. and 29.9	2 in Hg.	
Location (Scrubber for)	Granulator	Granulator
Test Number	A	, <b>B</b>
Test Date	3/4/71	3/4/71
Time	3:30 p.m 4:30 p.m.	4:45 p.m 5:45 p.m.
Ambient Conditions:		
Barometric Pressure, in Hg. Average Temperature, OF. Relative Humidity, %	29.65 52 20	29.65 52 20
Collection Equipment:		
Nozzle Diameter, in. Nozzle Area, sq. ft.	0.000341	0.000341

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Dryer-Cooler

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ALLAN M. SIEGEL, Director

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Report No. 25-1-235 (b)

Location (Scrubber for)

Page 3

Dryer-Cooler

#### SUMMARY

•	Test Number		С	D
•	Duration, hrs.  Particulate Emissions*	prest a	The 7-3.2512	.005 gn/sc=
	Total Particulate, lbs/hr. Total Particulate, grains/SCF Fume, lbs/hr. Fume, Weight Percent		18.1 0.069 0.42 2.3	21.6 0.082 1.15 5.4
	* Standard Conditions 70 F. and 29.92	in Hg.		
	Location (Scrubber for)		Granulator	Granulator
	Test Number		A	<b>В</b>
	Test Date		3/4/71	3/4/71
•	Time		3:30 P.M 4:30 P.M.	4:45 P.M 5:45 P.M.
	Ambient Conditions:		7.50 1.11.	J.7J I
	Barometric Pressure, in Hg. Average Temperature, F. Relative Humidity, %		29.65 52 20	29.65 52 20
	Collection Equipment:	e e e		
	Nozzle Diameter, in. Nozzle Area, sq. ft. Impingers		፟፟ 0.000341 Greenburg- Smith	2 0.000341 Greenburg- Smith

inc.

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ALLAN M. SIEGEL, Director

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Report No. 25-4-230

April 21, 1971

3 1971

Engineering Service

wift Agri. Chem. CHICAGO

Determination of stack emissions at Swift Agricultural Chemical

Corporation, Fairmount, Illinois.

Swift Agricultural Chemical Corporation 2 North Riverside Plaza Chicago, Illinois 60606

Attn: Mr. E. N. MAGRETENSON E. N. MAGRETENSON

#### TEST REPORT

On April 14, 1971 emission tests were conducted on the American Air Filter scrubber (dryer-cooler system) of Swift Agricultural Chemical Corporation, Fairmount, Illinois.

Background information on plant systems and test procedures may be found in previously issued Industrial Testing Laboratories Reports No. 25-1-235, 25-1-335 (a), and 25-1-235 (b).

Mr. Joe Burrough, of the Illinois Environmental Protection Agency. was present while the tests were being conducted.

Respectfully submitted,

INDUSTRIAL TESTING LABORATORIES. INC.

Allan M. Siegel, Director

Ellan In.

inc.

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314/PRospect 1-7111

ALLAN M. SIEGEL, Director

Report No. 25-4-230

Page 2

#### SUMMARY

Date	4/14/71	4/14/71
Location (Scrubber for)	Dryer-Cooler	Dryer-Cooler
Test No.	1	2
Duration, hours	1	1
Particulate Emissions *		
Total Particulate, lbs/hr.	4.1	2.9
Total Particulate, grains/SCF	0.017	0.012
Fume, 1bs/hr.	0.0008	0.0005
Fume, Weight, %	0.2	0.2

<sup>\*</sup> Standard Conditions of 70°F and 29.92 in Hg.

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ALLAN M. SIEGEL, Director

Report	No.	25-4-	230

Page 3

Location - Exhaust Gases from Dryer-Coole	er Scrubber Stack	•
Test No.	1	2
Test Date	4/14/71	4/14/71
Test Time	2:00- 3:00 P.M.	3:30- 4:30 P.M.
Ambient Conditions  Barometric Pressure, in Hg:	30.04	30.00
Average Temperature, <sup>o</sup> F.	62	63
Relative Humidity, %	26	22
Collection Equipment Nozzle Diameter, in.	1/4	1/4
Nozzle Area, Sq. Ft.	0.000341	0.000341
Impinger	Greenburg- Smith	Greenburg- Smith
Stack Data		
Traverse Points	6	6
Diameter, in.	38	38
Area, Sq. Ft.	7.87	7.87
Gas Temperature, oF.	102 562	102 562
Stack Pressure, in Hg.	30.08	30.04
Gas Density (A=1)	0.954	0.954
Volume Output, c.f.m. Stack Conditions	30,360	30,360
Standard Conditions	28.790	28.790

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2350 Seventh Blvd. . St. Louis, Missouri 63104

Chemists Engineers Metallurgists 314/PRospect 1-7111

ALLAN M. SIEGEL, Director

	Report No. 25-4-230		Page 4
	Test No.	1	2
	Meter Data  Meter Temperature, oF. R.	77 537	74 534
9	Average Vacuum, in Hg.	7.6	7.1
· · · · · · · · · · · · · · · · · · ·	Average Pressure, in Hg.	22.5	23.0
_	Sampling Rate, c.f.m.	1.31	1.31
0	Sample Volume, cu. ft. Metered Volume	78.6	78.6
	Total Volume (meter cond.)	79.2	79.4
•	Total Volume (Std. cond.)	59.6	60.6
9	Particulate Matter Collected	10	17
M	Water Condensed, mls.	13	17
0	Alundum Thimble, gms	0.0651	0.0454
	Impinger Train, gms	0.0001	0.0001
	Total Solid Particulate, gms	0.0652	0.0455
	Particulate Output		
-	Grains/SCF (Total Particulate)	0.0171	0.0116
	Pounds/hr. (Total Particulate)	4.21	2.86
	Fume. %	0.2	0.2

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T 20,36.05 = 54,78.7 × 00 × 24,65.40 = kugtu O 20.36 (C T)

(insternos estados o H) emulol elymo?

4.PT = 4.8T + 68.0 = \frac{\frac}

consistaliala)

P.02 = OE2 × 2.55 P.02 = OE2 × 2.55 15.04 = VEZ × 50.05 × 4.PT = V

075.0 = \frac{1000\times \text{1000}}{\frac{1000\times \text{10000}}{\frac{1000\times \text{10000}}{\frac{10000\times \text{10000}}{\frac{1000\times \text{10000}}{\text{100000}}}{\frac{10000\times \text{100000}}{\frac{10000\times \text{100000}}{\frac{10000\times \text{100000}}{\text{1000000}}}{\frac{10000\times

April 21, 1971 Page 6

Jed: Swift Agricultural Chem Date 4-14-71

Test No 1, 2

be-stien Dryer Cooler Scrubber Exbanst

آگد	48 W	STAC	K DA	TA	1	18 TE	R Da	TA F	OR 91	FW6F E	NG.	TI	M E	
<u>.</u> ه.	MiHi - Volta	Temp	Drast In. Hro	Yelocity Ft/sec	Fam de Rate	Mater Start	Heter Stop	Sample C.F.	Vacion In 199	Temp F		Start		
Αl	1,55	102	٦٢.	59.5	1.2	70.0	82.1	12.1	6.0	77		2004	2.5	
2	1.56	102	.74	60.5	1.23	82.1	94.4	12.3	7.0	77		2:0	230	1.00
3	156	102	.72	59.5	1.21	94.4	106.5	12.1	6.8	77		220	230	
4	156	102	.90	66.6	1.36	106.5	120,1	13.6	7,5	76		270	2 40	
5		102	1.02	71.0	1.45	120.1	136.6	14.5	9.0	76	-	252	250	
6	156	102	94	48.7	1.40	134.6	148,6	14.0	9.0	רר		250	388	
				64,3	1.31		· .	78.1	7.6	. 77				1
Ē			•		1.21	14876	140.7	12.1	6.5	74		3%	3 40	
<i>-م</i>					1.23	160.7	173,0	12.3	6.5	74		340	350	
ر خ					1.21	173.0	185.1	12.1	7.0	7.4	.•	350	4 60	í.
· ·¢					1.36	185.1	198.7	13.6	7.3	7 4		400	418	
					1.45	199.7	213.2	14.5	7.8	74		ـصـل	420	
3	, , , <del>, ,</del>				1.40	213.2	227.2	14.0	7.6	74		420	4 <u>30</u>	
×	1. 1 a				1.31			~8.b	7.1	74		1		

The second second

Sounde Rate = 45x,0204

Stack Dimensions 3"x2.5"	Stack Area 7.5"	Statin ?	0.04 See 550
Ambient Conditions: Temp: 2:3	Ber Press : \$30,00	_ Relative Hu	mily 022
Gas Analysis (By Orsat) Coz -			
Gas Moisture Content: 3.7%	Gas Density	.954	
Collection Nozzle: Dia 1/4	B C		
Matter Collected: Solid Partic	ulate;	Water 0: 13	
Smoke observation:		4.	<b>e</b>



混製製製製建製 電電電電電電電電

WILLIAM L. BLASER

#### STATE OF ILLINOIS

### **ENVIRONMENTAL PROTECTION AGENCY**

June 23, 1971

In Reply Refer To: APC/RRF ID#504190

ST. CLAIR CO/FAIRMONT CITY CE 71 114

W. H. Biedeman
Director of Engineering
Swift Agricultural Chemicals Corp.
111 West Jackson
Chicago, Illinois 60604

Dear Mr. Bieman:

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Permit is hereby granted to Swift Agricultural Chemical Corporation to operate its fertilizer plant in Fairmont City, Illinois, which was constructed pursuant to installation permit CE 70 \$47 1.

This permit is issued subject to the following conditions: (1) this permit shall not be valid after August 31, 1971. (2) in the event that odors are emitted from the plant during the temporary operating period and are determined to be objectionable beyond the plant boundaries Swift Agricultural Chemicals Corporation shall immediately modify its operation of the plant to reduce the odors to an acceptable level. (3) the emissions from the dryer-cooler shall be tested for particulate matter and fume concentrations. As a minimum such tests shall be conducted when the plant is producing a fertilizer formulating known as 12-12-12. Such tests are to be conducted by a third party and shall be conducted during the temporary operating period.

Respectfully,

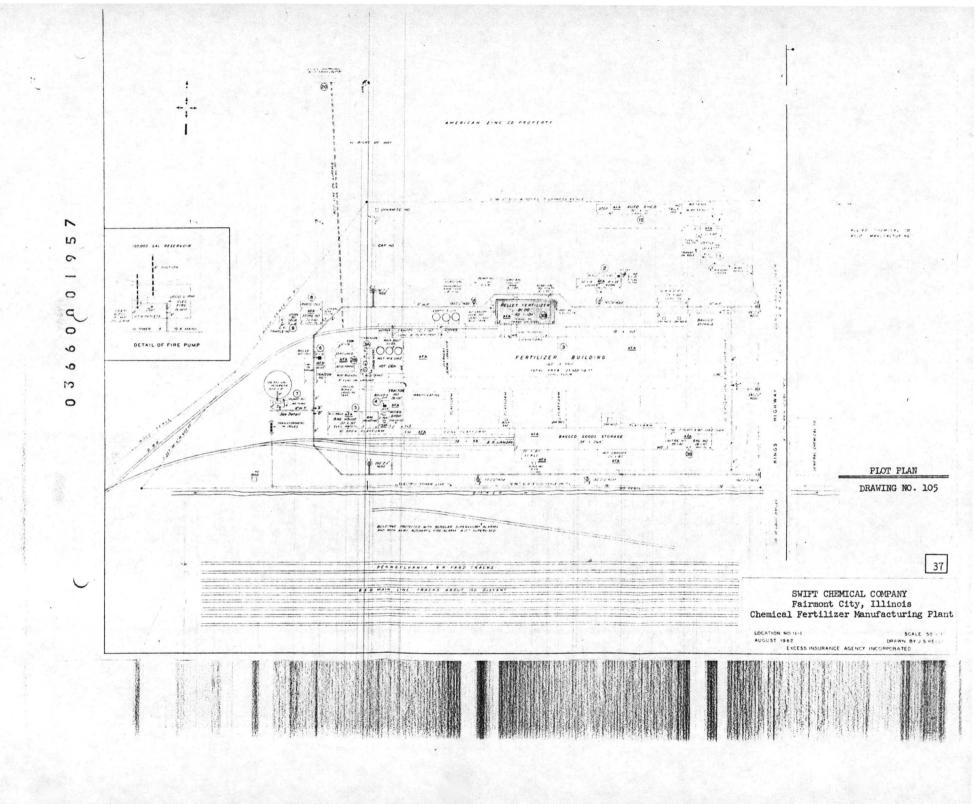
John J. Roberts, Manager Bureau of Air Pollution Control

RRF:ld cc: Region 4

In the New Illinois, we accommodate!

This pennit is granted in accordance with requirements of "Rules and Regulations Governing the Control of Air Pollution" as authorized by the "Environmental Protection Act" approved June 29, 1970, and is subject to the following conditions:

- 1. If any statement or representation in the application is incorrect, this pennit is void and the pennittee thereupon waives all rights thereunder.
- 2. There shall be no deviation from the approved plans and specifications unless additional or revised plans are submitted to the Environmental Protection Agency and a supplemental written permit issued.
- 3. At any time during or after the construction or the installation of the equipment for which this permit was issued, any agent of the Environmental Protection Agency shall have the right and authority to inspect such equipment.
- 4. This authority, (a) shall not in any manner affect the title to the premises upon which the equipment is to be located, (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from or arising out of the design installation, maintenance, or operation of the proposed equipment, (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or with applicable local laws, regulations or ordinances. (d) in no manner implies or suggests that the Environmental Protection Agency, or its officers, agents or employees, assumes any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from or arising out of the design installation, maintenance, or operation of the proposed equipment.
- 5. This permit is subject to review and change by the Environmental Protection Agency as deemed necessary to fulfill the intent and purpose of the Environmental Protection Act and Regulations thereunder promulgated.





#### ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 22GO CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVER!

WILLIAM L. BLASER, DIRECT

· · · · · · · · · · · · · · · · · · ·	<del></del>
	FOR OFFICIAL USE ONLY
ADDENDUM A	I.D. 80.
DATA AND INFORMATION FOR EXISTING EMISSION SOURCE	1.U. NV.
FOR EXISTING EMISSION SOURCE	PERMIT NO. S
FAN DATA	
	DATE :
1. NAME OF OWNER:	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
SWIFT CHEMICAL CO.	
3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY:
2501 North Kingshighway	Fairmont City
5. MARIUFACTURER OF FAN:	6. MANUFACTURER OF MOTOR:
Buffalo Forge Co.	Westinghouse
7. MODEL NUMBER OF FAN:	8. TYPE OF MOTOR:
Buffalo #90 MW	Totally enclosed
9. TYPE OF FAN BLADE:	10. MOTOR HORSEPOWER: The state of the state
OW	150 Hb
11. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	12. LOCATION OF FAM:
B-Z	Between CY 1 & 2 and SR-2
13. MANUFACTURER OF FAN:	14. MANUFACTURER OF MOTOR:
·	1
o Plastic Blower Co.	Allis-Chalmers
15. MOEL NUMBER OF FAN:	16. TYPE OF MOTOR: Totally enclosed
BPH Series, Size 20	18. MOTOR HORSEPOWER:
17: TYPE OF FAN ELADE: Open Impeller	
19. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	50 Hp
19. IDENTIFICATION OF FAR ON THE FLOW DINGKAN:  B-1	Between R-1 and SR-1
21. MANUFACTURER OF FAIN:	22. MARUFACTURER OF MOTOR:
21. PARILITATION OF FAIR.	EL. IFMOINCIONER OF HOTOR.
THEODER MINISTER OF EAM-	24. TYPE OF MOTOR:
HODEL NUMBER OF FAN:	24. TIPE OF NOTOR.
TYPE OF FAN BLADE:	26. MOTOR HORSEPOWER:
F. TILE OI LWI DEVOET	TOTAL MAILS ONERS
27. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	22 LOCATION OF CANA
27. IDENTIFICATION OF PAN ON THE FLOW DIAGRAM:	28. LOCATION OF FAN:
Q. Manufacturen as con-	TO MANUSACTURED OF NOTED.
· 29. HAMUFACTURER OF FAM:	30. MANUFACTURER OF MOTOR:
31. KODEL NUMBER OF FAN:	32. TYPE OF MOTOR:
51. FUULL NUMBER OF FAM:	JE. TIPE UP ROTUR:
33. TYPE OF FAN BLADE:	34. MOTOR HORSEPOWER:
53. HEE UP PAR DEAUC:	JY. HUTUR HUNDEPUNCK.
The state of the case of the c	26 106471011 05 5511
35. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	36. LOCATION OF FAN:
AT MANUFACTURED OF FAM.	29 HANDESCTUSED OF HATOD.
37. MARIUFACTURER OF FAN:	38. MANUFACTURER OF MOTOR:
The AMOUNT ANNUARD OF STAN	AO TYPE OF WATOR
39. HODEL MUMBER OF FAM:	40. TYPE OF MOTOR:
ET THE OF EAR FLORE.	42. MOTOR HORSEPOWER
41. TYPE OF FAN CLADE:	TE. NULUK NUKSEPUNEK
	44. LOCATION OF FAN:
43. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	77. Courtson of Part.



#### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARE FILLLIFICH CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR
WILLIAM L. BLASER, DIRECTOR

		NAME OF OWNER:  SWIFT C.  STREET ADDRESS OF EMISSIO  2501 N. Kingsh  NAME OF TANK MANUFACTURER	DATA AN FOR EXISTING HEMICAL N SCURCE:	CENDUM F C INFORMATION C EMISSION SOURCE  TANK  (Fuel of	:	4. CIT	Y: Fairmont IGNATION OF TANK:	VISION OR PL	S ANT (1F DIFFERENT	FROM OWNER):
	7.	Unknown SERIAL NUMBER:		· · · · · · · · · · · · · · · · · · ·	<del></del>	8. CAP	Fuel Oil	<del></del>	<del></del>	E BRLS
•	9.	None shown on TANK USE: Storage of		Engl Odl		<u> </u>		10,000	)	XX GALS
<u>~</u>	11.	TANK SHAPE:  HORIZOMTAL  TANK DIAMETER:  8.5		NDRICAL 12. TANK	SPHERICA		OTHER (SPEC	13. TANK L	27	FT
 . 10		STATUS: Existing	☐ NEW	ALTERAT	ION .	15. TAN	K TYPE: RESSURE		FIXED ROOF THER (SPECIFY)	FLOATING ROOF
		SEAL: None	SINGL OTHER	E DOUBLE  (SPECIFY)			RAGE DISTANCE FRO at maximum f		IK SHELL TO LIQUID	: ភ
· ·	18. [	SHELL TYPE:  RIVETED	WELDED	OTHER (SPECIFY	)		NT COLOR: Gra			•
	•				VENT VA	LVE DATA				
	630 100 100 100 100 100 100 100 100 100 1	TYPE OF VENT	NUMBER OF VENTS	PRESSURE SETTING				GE VENTED TO		
. —	Ű.	Combination				<del></del>	(Arriosi inc	·		
. ,	21	PRESSURE	<u>a.</u>	b. PSIG						<del></del>
. •c	1	VACUUM	a. '	b. PSIG			<del></del>		<u> </u>	
ે <b>ડ</b>	<u> </u>		a.	b. PSIG						
	23.	OPEN TO Atmos.	<u>la.</u>	h PSIG		tmosphe				
	~	•		<del></del>	TATERIACS	10 00 3100		<del></del>		
_	24.		HATERIAL			<u> </u>	DENSITY		VAPOR PRESSUR	E AT 700 F
_	<u> </u>	a.		· · · · · · · · · · · · · · · · · · ·		b.		LBS/GAL	с.	PSIA
· ·	25.	a. No. 2 Fuel (	il			6.7.3	·	LBS/GAL	c. RVP > 0.10	* PSTA
_	26.	a		· · · · · · · · · · · · · · · · · · ·		ь.		LBS/GAL	c	PSIA
	27.	a				Ь.	· .	LBS/GAL	c	PSIA
-		18. STORAGE TEMPERATURE:  MINIMUM 30 F		MAXIMUM _	75 °F		K TURN OVER PER Y	EAR:		·
-	. 3	O. MAXIMUM FILLING RATE:	O gpm_		8BLS/DAY GALS/DAY	31. AVE	RAGE THROUGH PUT:	300		98L5/DAY GALS/DAY
_	3	2. PRESSURE EQUALIZERS US				-				•
	——————————————————————————————————————	YAPOR LOSS COMMENTS NO		IF VAPOR TROL EQUI	LOSS CONTROL IPMENT (FORM	DEVICE IS	Thire Again &	TED SUS	LICATION FOR AIR F MITTED AS PART OF	POLLUTION CON- THIS APPLICATI

Basis information from American Oil Company - Standard oil Div.

Reid Vapor Pressure less than 0.10 PSIA at 100° F



#### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FULL THON CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 67/06

RICHARD B. OGILVIE, GOVEFNOR

WILLIAM L. BLASER, DIRECTO:

		ron	STOTEL HOSE ONLY
	Annount -		FICIAL USE ONLY
	ADDENDUM F DATA AND INFORMATION	1.D. NO.	
	FOR EXISTING EMISSION SOURCE	PERMIT NO.	5
	TANK (Small Anhydrous )	OH2) DATE -	
1. NAME OF OWNER:	\	2. NAME OF CORPORATE DIVISION OR	PLANT (IE DIEFERSNT FROM CHNER
SWIFT CHEMICAL CON			
3. STREET ADDRESS OF EMISSION		4. CITY:	
2501 North Kingshi 5. NAME OF TANK MANUFACTURE		Fairmont City  6. DESIGNATION OF TANK:	
Not known - name m		Anhydrous small Ammoni	a Storage
7. SERIAL NUMBER: Ditt	0	8. CAPACITY:	☐ BRL:
<del>_</del>	nydrous Ammonia		
TO. TANK SHAPE:  NORTZONTAL	CYLINDRICAL SPHERICA		
11TANK DIAMETER:	CYLINDRICAL SPHERICAL SPHERICAL 12. TANK HEIGHT:	AL OTHER (SPECIFY)	( LENGTH ·
_ <del>-</del>	6 FT	г	50
14. STATUS: Existing	☐ NEW ☐ ALTERATION	PRESSURE	☐ FIXED ROOF ☐ FLOATING F☐ ☐ OTHER (SPECIFY)
16. SEAL:	SINGLE DOUBLE OTHER (SPECIFY)	17. AVERAGE DISTANCE FROM TOP OF 1 At maximum fill (85%)	ANK SHELL TO LIQUID: of capacity) 1'-3"
18. SHELL TYPE:  RIVETED	WELDED OTHER (SPECIFY)	19. PAINT COLOR: Gray	
	YENT V	LVE DATA 2 vents with two	safety relief valves
TYPE OF VENT	NUMBER PRESSURE SETTING	DISCHARGE VENTED (ATMOSPHERE, FLARE	
20. Combination	a. b. PSIG c.		
21. PRESSURE (Safety)	Discha	rge to atmosphere only i pressure exceeds 250 psi	
22. YACUUM	a. b. PSIG c.		
23. OPEN	a. b. PSIG c.	•	
		TO BE STORED	
	MATERIAL	DENSITY	VAPOR PRESSURE AT 70° F
24. a. Liquid Anhydr	ous Ammonia	b. 5.08 LBS/GAL	c. 128.8 F
25. a.		b. LBS/GAL	ç, P
26. a.		b. LBS/GAL	c. P
27.		b. LBS/GAL	c. P
28. STORAGE TEMPERATURE: MINISTEM 20 F	MAXIMUM 85 °F	29. TANK TURN OVER PER YEAR:	28
30. MAXIMUM FILLING RATE:	50 gpm GALS/DAY	31. AVERAGE THROUGH_PUT	□ · 88LS/0.
. 32. PRESSURE EQUALIZERS US			
33. VAPOR LOSS CONTINUES		DEVICE IS APC-61) APC-611	PPLICATION FOR AIR POLLUTION CONSTITUTED AS PART OF THIS APPLIE
STA - 110 - 110		Jegan Lands,	



# STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FOLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 6#06

RICHARD B. OGILVIE, GOVEFNOR
WILLIAM L. BLASER, DIRECTO

	The state of the s				<del></del>	T .	FOR OF	FICIAL USE ONLY	<del></del>
( TES		AODEN DATA AND I FOR EXISTING EN	NFORMATION	:		1.D. NO.	-		
		_	NII!	nhydrous	NH <sub>2</sub> )	PERMIT NO.		\$	
:			(TATEC N	inty dr Ods	<u> </u>	DATE	. –		
	1. NAME OF OWNER:	MICAL COM	- - <b>νην</b>		2. NAME	OF CORPORATE D	IVISION OR	PLANT (IF DIFFEREN	r FROM OWNER
	3. STREET ADDRESS OF EMISSIO		TANT		4. CITY	· · · · · · · · · · · · · · · · · · ·		<del></del>	<del></del>
- · · · · · · · · · · · · · · · · · · ·	2501 North King				7. (1)	Fairmor	t City		
	5. NAME OF TANK MANUFACTURES				6. DESI	IGNATION OF TANK			
	Not known name pl	ate missi	ng		Large	Anhydrous	Ammonia	Storage	·.
· •	7. SERIAL NUMBER: Ditto				8. CAPA	CITY: 3200	00		D BPL:
	9. TANK USE: Liquid Anh	ydrous Am	monia					·	
	10. TANK SHAPE:  X HORIZONTAL	CYLINDF	ercai I	SPHERICA	,	OTHER (SPE	ercy)		
	11TANK DIAMETER:	1,10 0121101	12. TANK		<u> </u>	LJ UINER (SPE	13. TANK	I FNGTH.	
	91-3"		FT.			· FT		62'-9"	•
9	14. STATUS: Existing	☐ NEW	ALTERAT	ION	15. TAN			FIXED ROOF	FLOATING RC
_	16. SEAL:	SINGLE	DOUBLE		17. AVE	RESSURE RAGE DISTANCE FR	OM TOP OF T	OTHER (SPECIFY)  ANK SHELL TO LIQUE	D:
	10 FUEL TYPE	· DOTHER (S	SPECIFY)				. (85% o	f capacity)	2
	18. SHELL TYPE:  RIVETED X	WELDED [	OTHER (SPECIFY)	)	19. PAIN	T COLOR: Gra	У		
0				VENT VAL	LVE DATA 2	vents wit	h two s	afety relief	valves
	TYPE OF VENT	NUMBER PE	RESSURE SETTING				RGE VENTED ERE, FLARE,		
- 	20. Combination	) a. b.	PSIG	<b>C</b> -					
	21. PRESSURE Safety	a b.	. 250 psig			atmospher re exceeds		in unlikely o ig	event
~	22. VACUUM	a. b.	. PSIG	c	,				
_ <u></u>	23. OPEN		PSTG			•		•	•
_0				MATERIALS :	TO BE STORE	D .			
	•	MATERIAL				DENSITY		VAPOR PRESSU	RE AT 700 F
	24. Liquid Anhydro	us Ammonia	<b>a</b> .		b	5.08	LBS/GAL	c. 128.8	PS
	25. a.		:		ь.	·	LBS/GAL	c.	Þς
	26.				ь.	• • • •	LBS/GAL	c.	PS
	27.			÷		· .			
<del></del> .	28. STORAGE TEMPERATURE:		MAXIMUM	85 °F	D. 29. TANK	TURN OVER PER	LBS/GAL YEAR:	32	PS
	MINITIM 20 F	·50	9	BBLS/DAY	31. AVER	PAGE THROUGH PUT	: 2700		
<del></del> :`	32. PRESSURE EQUALIZERS US			GALS/DAY	<del>                                     </del>	·	3700		P 0453104
·	X YES	<u> </u>							0011177377 50
<u></u> . /	33. VAPOR LOSS CO	:301		LOSS CONTROL		्रिस्ट स्टब्स्ट स्टब्स् इंटिस्स्ट स्टब्स्	TE DESTRUCTION OF THE PERSON O	PPLICATION FOR AIR UBMITTED AS PART C	
	,				•	•			



#### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FULLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOE

WILLIAM L. BLASER, DIRECTO

		EOR	OFFICIAL USE ONLY
	DATA AND INFORMATION	05 I.D. NO.	
	FOR EXISTING EMISSION SOURCE TANK	PERMIT NO.	\$
	(South Phosphoric Acid Tank	) · DATE	
1. NAME OF OWNER: SWIFT CHEMICAL CO			OR PLANT (IF DIFFERENT FROM OWNE
3. STREET ADDRESS OF EMISSION		4. CITY:	
2501 N. Kingshig	hway	Fairmont City	
5. NAME OF TANK MANUFACTURER	·	6. DESIGNATION OF TANK:	1- /a- +1 \
7. SERIAL NUMBER:	owners-Manuf. not known	Phosphoric Acid Tan  8. CAPACITY:	K (South)
Has none		32000	<b>54</b> GA
9. TANK USE: Storage of Wet	Process Phosphoric Acid		
IO. TANK SHAPE:			n rectangular lead-li
HORIZONTAL  1TANK BIXXEXER:	CYLINDRICAL SPHERIC		
Width	12 FT PT	10 FT 13.	TANK LENGTH:
4. STATUS:	☐ NEW ☐ ALTERATION	15. TANK TYPE:	FIXED ROOF FLOATING
Existing  6. SEAL:	SINGLE O DOUBLE	PRESSURE  17. AVERAGE DISTANCE FROM TOP O	OTHER (SPECIFY) Open to
None	OTHER (SPECIFY)	- Not applicable	
8. SHELL TYPE:	WELDED OTHER (SPECIFY)	19. PAINT COLOR:	
		ALVE DATA None required	painted
	T	DISCHARGE VENT	<del></del>
TYPE OF VENT	OF VENTS PRESSURE SETTING	(ATMOSPHERE, FLA	
20. Combination	a b PSIG c		
PRESSURE	a. b. PSIG c.		
22. VACUUH	a. b. PSIG c.		·
23. OPEN	a b PSIG c.	•	
		TO BE STORED	
	MATERIAL	DENSITY	VAPOR PRESSURE AT 700
24. • Wet Process Pl	hosphoric Acid	b. 14.1 LBS/G/	a. c. 1 mm Hg*
25.			
<b>a.</b> 26.		b. LBS/G/	K. c.
AU .		b. LBS/G/	lL c.
1.		<b>.</b>	1
27.	-	h 185/G/	u .
27. a. 28. STORAGE TEMPERATURE:	махімим 70 ° <sub>F</sub>	b. LBS/G/ 29. TANK TURN OVER PER YEAR: 7.5	AL C.
27.  28. STORAGE TEMPERATURE:  MINIMUM 30 F  30. MAXIMUM FILLING RATE:	☐ BBLS/DAY	29. TANK TURN OVER PER YEAR: 7.5 31. AVERAGE THROUGH PUT:	☐ 68LS,
27.  28. STORAGE TEMPERATURE:  MINIMUM 30 F	BBLS/DAY GALS/DAY	29. TANK TURN OVER PER YEAR: 7.5	☐ 68LS,

\*See Fig. 3-1 page 3-61 Chemical Engrs. Hdbk. 4th Ed.



### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FILLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR WILLIAM L. BLASER, DIRECTO

Has none	for the							·		12/2		
PORT AND ENGRAPHING FOR ENSINGE WESSHORD SOURCE  TANK  (Sulfuric Acid Tank)  DATE  SWIFT CHENICAL COMPANY  3. SIREST ADDRESS OF CHISSION SOURCE:  SWIFT CHENICAL COMPANY  3. SIREST ADDRESS OF CHISSION SOURCE:  2POL N. Kingsdighway  Fairmont City  5. NAME OF TANK ANDWARCHER:  2POL N. Kingsdighway  SELIFUT ADDRESS OF CHISSION SOURCE:  PRINT COLOR FLAW. CITY  SELIFUT AND SOURCE  SULFTIC ACID (GO Be)  STORE OF TANK ANDWARCHER:  DATE AND SHEET ADDRESS OF CHISSION SOURCE:  SELIFUT AND SHEET ADDRESS OF CHISSION SOURCE:  TANK SHEET ADDRESS OF CHISSION SOURCE:  SELIFUT AND SHEET ADDRESS OF CHISSION SOURCE:  TANK SHEET ADDRESS OF CHISSION SOURCE:  SELIFUT AND SHEET ADDRESS OF CHISSION SOURCE SHEET ADDRESS OF CHISSION SOURCES  PRINT CALL DESCRIPTION SOURCES  AND SHEET ADDRESS OF CHISSION SOURCES  THE OF VEHI OF VEHI ORDERS OF CHISSION SOURCES SHEET ADDRESS OF CHISSION SOURCES SHEET SHEET ADDRESS OF CHISSION SHEET ADDRESS OF CHISSION SOURCES SHEET SHEET ADDRESS OF CHISSION SHEET ADDRESS OF CHISSION SHEET ADDRESS OF CHISSION SHEET ADDRESS OF CHISSION SHEET SHEET ADDRESS OF CHISSION SHEET ADDRESS OF CHIS		•				. 1	مراس		EOR OFF	ICIVE OZE 0	HLY	
LANK   CSULFUTE Acid Tank   DATE	· · · · · · · · · · · · · · · · · · ·	٠.	•	DATA AN	D INFORMATION		00	1.D. NO.	:			
1. MANY OF GALER:   SWIFT CHEMICAL COMPANY   2. New 9 CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SETTING CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SETTING CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SETTING CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SETTING CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SETTING CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SETTING CORPORATE DIVISION OR PLANT (IF DIFFERINT FRAM BASIS SUBJECT FOR TAKES SUBJECT FRAM FRAME FRAM BASIS SUBJECT FRAM FRAME FRAM BASIS SUBJECT FRA	!							PERMIT NO.		\$		
1. NAME OF COASCASE DIVISION OR PLANT (IF DIFFERINT FROM COMES  SMITT CHEMICAL COMPANY  3. SIMEST ADDRESS OF ENISSION SCORES: 2501 N. Kingshighway  5. NAME OF TANK NAMEAGURERS: Built by prior owners - Manuf.not known  7. SERIAL NUMBER: HAS DONE  9. NAW USE: STOTAGE OF Sulfuric Acid (60° Be)  10. TANK NAMEAGURERS:	.	•		. ••		Acid Ten	ι. <b>λ</b>	DATE	· -			
SMIFT CHENICAL COMPANY    Single fonces of sussion Sounce:   4. City:   2501 N. Kingshighway   Fairmont City	> ₩	ī.	NAME OF OWNER:		(Ouri mire	ACIU IAII			IVISION OR P	LANT (IF DI	FFERENT FRO	M OWNER
Second Companies   Fairmont City   Second Companies   Second Compani					·					· ·		
S. NAME OF TANK PARUFACURER: BUILT by prior owners - Manuf.not known  7. SERIAL RUSSES: Bush to by prior owners - Manuf.not known  8. CAPACITY: SULPTURIC ACID (60° Be) Storage  9. NAM USE: S. STORAGE OF SULFURIC ACID (60° Be)  10. NAM SHOPE: Bush Color of Sulfuric Acid (60° Be)  11. JANK NEGOTEX  11. JANK NEGOTEX  11. JANK NEGOTEX  12. TANK REGOTE: THE STANK TYPE: SEXISTING  13. TANK LERGIT: THE STANK STORES  14. STANK TYPE: SINGLE DOUBLE  15. TANK TYPE: SINGLE DOUBLE  16. SERI: SINGLE DOUBLE  17. AVERAGE OF SULF LERGIT OF DE TANK SHELL TO LIQUID: NOTE OF THE STANK SHELL TO LIQUID: WENT VALVE DATA NOTO PRIOR STANK SHELL TO LIQUID: SEXISTING  18. SHELL TYPE: SINGLE DOUBLE  19. PART COLOR: NOT applicable  19. PART SHELL TO LIQUID: NOT applicable N		3	STREET ADDRESS OF EMISSIO	N SCURCE:	• • •		4. CIT	Y: Boimmont Cit	·			
Built by prior owners - Manuf.not known  7. Seeta, member: Has none  8. CAPACITY 10,000  10. Storage of Sulfuric Acid (60° Be)  10. TANK USE: Storage of Sulfuric Acid (60° Be)  10. TANK SAPE: Storage of Sulfuric Acid (60° Be)  10. TANK SAPE: Storage of Sulfuric Acid (60° Be)  10. TANK SAPE: Storage of Sulfuric Acid (60° Be)  11. TANK MEMORIKA Witch 8 FT 12. TANK MEIGHT: THE MEMORIKA STATUS: STAT		5.				<del></del>				<del></del>		
1. SERIAL NUMBER:	٠,				Manuf not kno	wn	5117	furic Acid		Storas	e .	
1. TANK USE:   Storage of Sulfuric Acid (60° Be)   10. TANK SHAPE:   10. TANK SHAPE:   11. TANK MEMORIXEN   CILINDRICAL   SPHERICAL   OTHER (SPECIFY) lined Mood Vat	_	7-					8. CAP	ACITY:	<u> </u>	<del></del> `	<del></del>	Ç BRL:
Storage of Sulfuric Acid (60° Be)    10. Tank Super:   Open rectangular lead-   Instruction   Instruction   Other (specify) lined wood vat    11. Tank MigNates   Other (specify) lined wood vat   12. Tank MigNates   Other (specify) lined wood vat   13. Tank Center:   Other (specify) lined wood vat   14. Status:   Other (specify) lined wood vat   Other (specify)				•	· · · · · · · · · · · · · · · · · · ·			10,000				M GALS
TYPE OF VENT   MAGER   PRESSURE SETTING   MATERIAL   DENSITY   TOPE   TANK SHELL TO   LIQUID:   Not applicable   Material   DISCHARGE VENTED TO   CATHORY FRESSURE A. b. PSIG c.   DENSITY   DENSITY   VAPOR PRESSURE AT 70° F   CALL STORAGE TENSERGE   C. Approx.0.25mm   Results   C. Approx.0.25mm   C. Approx.0.25mm   Results   C. Approx.0.25mm   Results   C. Appr	.•	9.	TANK USE: Storage of Sult	enrio Ac	id (60° Be)					·		
IDRITIONIA   CYLINGRIA   SPHERICAL   OTHER (SPECIFY)   Lined wood vat	. 1	٥.	TANK SHAPE:	uric ac	14 (00 207	-		•	Onen	rectand	milar le	ead -
Width   8		_		CYLI	NDRICAL [	] SPHERICA	L	OTHER (SPE	CIFY) <u>lin</u>	ed wood	vat	
A STATUS:   NEW   ALTERATION   IS. TANK TYPE:   FILED ROOF   FLOATING E EXISTING   SENSITING   Not applicable   Not a	<u>.</u> ī	1.			12. TANK	HEIGHT:			13. TANK	LENGTH:		
Existing   NEW   Alteration   PRESSURE   MINOR (SPECIFY)   Open to    16. SEAL:   SINGLE   DOUBLE   17. AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID:    None   Other (SPECIFY)   Net applicable   19. PAINT COLOR:    Not applicable   Not painted   Not painted    VENT VALVE DATA none required - open vat    TYPE OF VENT   NUMBER OF VENT   PRESSURE SETTING   DISCHARGE VENTED TO (ATMOSPHERE, FLARE, ETC)    20. Combination   S. D. PSIG c.    21. PRESSURE   A. D. PSIG c.    22. VACUUM   A. D. PSIG c.    23. OPEN   AMTERIAL   DENSITY   VAPOR PRESSURE AT 70° F    AMTERIAL   DENSITY   VAPOR PRESSURE AT 70° F    34. a. Stifuric Acid (60° Be)   b. 11.3   LBS/GAL   c. Approx.O.25mm   R    25. a.   b. LBS/GAL   c. P    26. a.   b. LBS/GAL   c. P    27. a.   b. LBS/GAL   c. P    28. STORAGE TEMPERATURE:   HINTOWN   30° F   MAXIMUM   70° F   29. TANK TURN OVER PER YEAR:   26    30. MAXIMUM FILLING RATE:   BBLS/GAL   C. P    23. PRESSURE EQUALIZERS USED:   MO   GALS/GAY   31. AVERAGE THROUGH PUT:   1000   M   GALS/GAS/GAS/GAY   31. AVERAGE THROUGH PUT:   1000   M   GALS/GAS/GAS/GAS/GAS/GAS/GAS/GAS/GAS/GAS/GA	· 1	4	Width 8	<del></del>	FT.		7 701	FT T	·	FIXED BOOK		DATTNC F
SINGLE   OUBLE   OUBLE   NAME   OUBLE   Not applicable	၁ '	₹.	•	NEW	ALTERATI	ON						
Not applicable    Not applicable   Not a		6.	SEAL:	SINGL	E 🗇 DOUBLE	<del></del>						<u> </u>
VENT VALVE DATA none required - open vet  TYPE OF VENT OF VENT OF VENTS PRESSURE SETTING DISCHARGE VENTED TO (AIMOSPHERE, FLARE, ETC)  20. Corbination	.,· 			OTHER	(SPECIFY)		No	ot applicab	le			·· ·
VENT VALVE DATA   none required - open vat	¹	*		WELDED	M OTHER (SPECIFY)	Lead- Lined	19. PA1		nointod			
TYPE OF VENT OF VENTS OF VENTS PRESSURE SETTING OF VENTS		<del></del>	,		<u>G</u> ,	7000		· NOC	Dainceu			<del></del>
20. Combination   a   b   PSIG   c	<u>ب</u> (د				· .	VENT VA	LVE DATA	none require	ed - ope	n vat		
21. PRESSURE  22. VACUUM  23. OPEM  24. NATERIAL  25. D. LBS/GAL C. Approx.O.25mm R  25. D. LBS/GAL C. P  26. A. Storage Terperature:  MINITURE 30 F MAXIMUM 70 F  MINITURE 30 F MAXIMUM 70 F  MAXIMUM FILLING RATE:  50 EBLS/DAY GALS/DAY  MAXIMUM FILLING RATE:  50 EBLS/DAY  MAXIMUM FILLING RATE:  50 EBLS/DAY  MAXIMUM FILLING RATE:  50 EBLS/DAY  GALS/DAY  31. AVERAGE THROUGH PUT:  1000	ਧੰ ੇ	1	TYPE OF VENT		PRESSURE SETTING							
21. PRESSURE  22. VACUUM  23. OPEN  A. b. PSIG c.  MATERIALS TO BE STORED  MATERIALS TO BE STORED  MATERIALS TO BE STORED  MATERIAL  DENSITY  VAPOR PRESSURE AT 70° F  162*  24. a. Stilfuric Acid (60° Be)  b. 11.3 LBS/GAL c. Approx.0.25mm R  25. a. b. LBS/GAL c. P  26. a. b. LBS/GAL c. P  27. a. b. LBS/GAL c. P  28. STORAGE TEYPERATURE: HIMITIM 30° F HAXIMUM 70° F HAXIMUM 70° F  MAXIMUM 70° F  MAXIMUM 70° G  BBLS/DAY GALS/DAY 31. AVERAGE THROUGH PUT: 1000	2	0.	Combination		b PSIG	c						
22. VACUUM  a. b. PSIG c.  MATERIAL DENSITY VAPOR PRESSURE AT 70° F  MATERIAL DENSITY VAPOR PRESSURE AT 70° F  1624.  a. Súlfuric Acid (60° Be)  b. 11.3 LBS/GAL c. Approx.0.25mm R  25.  a. b. LBS/GAL c. P  26.  a. b. LBS/GAL c. P  27.  a. b. LBS/GAL c. P  28. STORAGE TEPPERATURE: MINIPIN 30° F  MAXIMUM 70° F  30. MAXIMUM FILLING RATE:	φ <sub>2</sub>	1.	PRESSURE -									
MATERIAL   DENSITY   VAPOR PRESSURE AT 70° F	<b>⊘</b>  ₂	2.	VACUUM								,	•
MATERIAL   DENSITY   VAPOR PRESSURE AT 70° F	<b>つ</b> 2	3.	OPEN		·		_	• • •			•	
24.  a. Stilfuric Acid (60° Be)  b. 11.3 LBS/GAL c. Approx.0.25mm R  25.  a.  b. LBS/GAL c. P  26.  a.  b. LBS/GAL c. P  27.  a.  28. STORAGE TEMPERATURE: MINITUM 30° F MAXIMUM 70° F 29. TANK TURN OVER PER YEAR: MINITUM 30° F MAXIMUM 70° F 29. TANK TURN OVER PER YEAR: MAXIMUM 70° F 29. TANK TURN OVER PER YEAR: GALS/OAY  30. NAXIMUM FILLING RATE: 50 gpm	⊃້			1 <u>4-,</u>	10		TO BE STOR	ED		· ·		
a. Stilfuric Acid (60 Be)   b. 11.3   LBS/GAL   c. Approx.0.25mm   R	ſ			MATERIAL				DENSITY		VAPOR	PRESSURE A	T 70° F
25.  a.  b. LBS/GAL c. P  26.  a.  b. LBS/GAL c. P  27.  a.  b. LBS/GAL c. P  b. LBS/GAL c. P  28. STORAGE TEMPERATURE:     MINIMUM 30 F MAXIMUM 70 °F     MAXIMUM FILLING RATE:     MINIMUM FILLING RATE:     SO EDM	2	4.	• Stifuric Acid (	60° Bas			h " 1.	1:3	185/641	s Annre	ox 0 25r	Hg <del>X</del>
Bolicolumn   Bol	-	5.	u. Bullulle Acid	oo be	÷		1		2037072	c. r.pp.r.	7.00.	<u> </u>
B.   BS/GAL   C.   P	_	:	a				Ь.		LBS/GAL	с	<del></del>	P:
27.  28. STORAGE TEMPERATURE:     MINISTUM 30 F	. 12	26.	•						I RS /CAL	_	•••	D.
28. STORAGE TEMPERATURE:   29. TANK TURN OVER PER YEAR:   26   29. TANK TURN OVER PER YEAR:   26   26   27   28   28   28   28   28   29   29   29	-	7					1		E03/0AL			
30. WAXIMUM FILLING RATE:  50 gpm GALS/DAY  31. AVERAGE THROUGH PUT:  1000 M GALS/DAY  32. PRESSURE EQUALIZERS USED:  1 YES 1 NO			a.			· · · —	Ь		LBS/GAL	с	·	. p <u>s</u>
30. WAXIMUM FILLING RATE:  50 gpm GALS/DAY  31. AVERAGE THROUGH PUT:  1000 M GALS/DAY  32. PRESSURE EQUALIZERS USED:  1 YES 1 NO		2	3. STORAGE TEMPERATURE:			7∩ 0-	29. TAN	K TURN OVER PER	EAR:			
50 gpm GALS/DAY 1000 A GALS/DAY  32. PRESSURE EQUALIZERS USED:  1 YES 1 NO		_				<del></del>						Epi e /n/
32. PRESSURE EQUALIZERS USED:		اد		•			31. AVE	RAGE THROUGH PUT	1000			GALS/C
	-	, 3	Z. PRESSURE EQUALIZERS US					· .,				
				<u> </u>	IE VADOO	ומכב במיודפתי	DEVICE 15	Life T.	W SERVIT AD	DI TOSTION E	08 419 POL	INTION CO
33. VAPOR LOSS CONTROL DEVICE:  IF VAPOR LOSS CONTROL DEVICE IS THE SEPART APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT (FORM APC-61)  PES CK NO TROL EQUIPMENT (FORM APC-61)  UNITED AS PART OF THIS APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT (FORM APC-61)	_(*		TYES EX NO		TROL EQUI	PMENT (FORM	APC-61)	्राप्तिक संद् <u>राता १</u> ०	الم من الم			

\*See table 3-13 Chem. Engns. Hdbk -4th Ed.



### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARRECTEUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 67706

RICHARD B. OGILVIE, GOVERNOR
WILLIAM L. BLASER, DIRECTO

-r-			<del></del>	· · · · · · · · · · · · · · · · · · ·	FOR OF	FICIAL USE ONLY	
	AUDEN	DUM F	00	5		FITT	
	DATA AND I	NFORMATION				<u> </u>	<del></del>
	TA:	•		PERMI	r NO.	\$	
	(North	Phosphoric Ad	cid Tank	) DATE	_		<del> </del>
1. NAME OF OWNER:					ORATE DIVISION OR	PLANT (IF DIFFERENT	FROM OWNER
SWIFT CHEMICAL  3. STREET ADDRESS OF EMISS	COMPANY						
2501 N. Kingshi				4. CITY:	airmont City		
S. NAME OF TANK MANUFACTUR	ER:			6. DESIGNATION			<del></del>
Built by prior of	owners-Manu	f. not known		Phosphoric	Acid Storag	e (North)	
7. SERIAL NUMBER: Has None				<ul><li>B. CAPACITY: 32000</li></ul>			☐ BPL
TANK USE.			<u>-</u>	32000	<del> </del>	<del></del>	
Storage of Wet	Process Ph	osphoric Acid	<u>d</u>				
O. TANK SHAPE:  HORIZONTAL	C cyl tubi			· IVI	Oper	rectangular	lead-li
1TANK DADIGFEA:	CAF INDE	12. TANK HE	SPHERICAL	<u> </u>	HER (SPECIFY) WOO		<del></del>
Width 12	•	FT.		10.	FT	36	
4. STATUS:	☐ NEW	☐ ALTERATION		15. TANK TYPE:			FLOATING P
Existing 6. SEAL:	SINGLE	D DOUBLE	`	PRESSURE		OTHER (SPECIFY)	
None	- OTHER (5	_		Not app		ANK SHELL TO LIQUID	· <b>:</b>
8. SHELL TYPE:	I WELDED F	OTHER (SPECIFY)_		19. PAINT COLOR			
	J HELDED L	J OTHER (SPECIFF)		Not par	ıntea		
	·		VENT VALV	Me DATA None	equired - or	en vat	
TYPE OF VENT	NUMBER P	RESSURE SETTING		· · · <del>-</del> · <del>-</del> · · · · · · · ·	DISCHARGE VENTED		
<del></del>	OF VENTS		<del></del>		(ATMOSPHERE, FLARE,	, ETC)	
). Combination	a. b.	PSIG	€.				
. PRESSURE					.,		
- PRESSURE	ab.	PSIG	:		· ·		
2. VACUUM	a. b.	PSIG	e.				
3. OPEN			· · · · · · · · · · · · · · · · · · ·		•		
J. OFEN	<u>la. la</u>	PSIGL	•			·	
		·	MATERIALS TO	BE STORED			
	MATERIAL			DEN	SITY	VAPOR PRESSUR	E AT 700 F
24. Wet process	phosphoric	Acid		ь. " 14·1	LBS/GAL	c.lmm Hg*	
25.	<del>*                                    </del>	· ·					
a. 26,	• ;	<del></del>		<u>b.                                      </u>	LBS/GAL	C	
i				b	LBS/GAL	c.	·
27.			-				
28. STORAGE TEMPERATURE:	<del></del>	· · · · · · · · · · · · · · · · · · ·		b. 29. TANK TURN O	LBS/GAL	С.	
HINIM 30 F		MAXIMUM	70°F	2. IMIK TOME O	7.5		
30. HAXIMUM FILLING RATE			88LS/DAY	31. AVERAGE THRO	OUGH PUT:	<u> </u>	BBLS/C
50 gpm	us cn		GALS/DAY		3400	<u> </u>	GALS/D
. 32. PRESSURE EQUALIZERS				•	• • • • • •		
Z3Y 🔲	<u>ro</u> 100						
33. VAPOR LOSS COMMITS		IF VAPOR LO	SS CONTROL C	DEVICE IS DEVICE IS DE 1252	THE SERVIT A	PPLICATION FOR AIR USMITTED AS PART OF	

\*See Fig. 3-1 page 3-61 Chemical Engrs. Hdbk. 4th Ed.

02 04 408 003

Twp 11 Bk 01 Pge009 Line 110 SWIFT AGRICULTURAL CHEM CORP Address of Property:

Pt NE 1/4 SEC 9 & Pt SE 1/4 SEC 4 as desc in 22/11-91 10.33 acres

ENV 70

11,363 82,461 93,824

000-000 4 2N 9W

Previous deed ref. on reverse



## STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERN WILLIAM L. BLASER, DIRECT

			Total Albert		FOR OFFICIAL USE ONLY
		ATA AND INFORMATION TING COMBUSTION EQUIPMENT		I.D. NO.	
	TOR EXIS	- AND			
		INDIRECT HEATING		PERMIT NO.	F
		Dryer Burne	er (E-2)	DATE	
la.	NAME OF OWNER: SWIFT CHEMIC	CAL CO.	16. NAME OF	OPERATOR:	
?a.	STREET ADDRESS OF OWNER:  111 W. Jackson	Boulevard		DDRESS OF OPERATOR Kingshighway	
3a.	CITY OF OWNER: Chicago		3b. CITY OF	OPERATOR: Fairn	nont City
la.	STATE OF OWNER: Illinois	4b. ZIP CODE: 60604		OPERATOR: linois	5b. ZIP CODE: 62201
5.	NAME OF CORPORATE DIVISION	OR PLANT (IF DIFFERENT FROM OWNER):			
7.	LOCATED WITHIN CITY LIMITS	: ŽÍYES □NO		DDRESS OF EMISSION N. Kingshigh	
a.	CITY: Fairmont City	96. LOCATED WITHIN CITY LIMITS:	10: COUNTY: St. Clai:	r	11. ZIP CODE: 62201
	UNDERTAKE AND COMPLETE, WITTHIS INFORMATIONAL FORM:	APPLICANT HAD, ON OR BEFORE APRIL 14, THIN A REASONABLE TIME, A CONTINUOUS PRICE.  YES NO	ROGRAM OF CONSTRU	CTION OR MODIFICAT	ION OF THE EQUIPMENT DESCRIBED
•					
3.	SHOW WHETHER OR NOT THE EMI	THE RESULTS OF TESTS CONDUCTED IN ACC SSIONS OF CONTAMINANTS FROM THIS EMISS HE SAME PLANT OR PREMISES OF THE APPLICATION	SION SOURCE, EITH	ER ALONE OR IN COM	BINATION WITH CONTAMINANTS FROM
)	SHOW WHETHER OR NOT THE EMI OTHER SOURCES LOCATED AT THE POLLUTION.  IN LIEU OF ONE OR MORE OF SENGINEERING STUDIES SUFFICE TO SHOW WHETHER OR NOT THE	SSIONS OF CONTAMINANTS FROM THIS EMISS	SION SOURCE, EITH CANT, COMPLY WITH THER STANDARD TES OF EMISSIONS OF C R. ALONE OR IN COM	ER ALONE OR IN COM APPLICABLE SUBSTA TING INFORMATION O ONTAMINANTS FROM I BINATION WITH CONT	NTIVE REGULATIONS OF CHAPTER 2,  R THE DETAILS AND RESULTS OF HIS EMISSION SOURCE AND FURTHER AMINANTS FROM OTHER SOURCES
3.	SHOW WHETHER OR NOT THE EMI OTHER SOURCES LOCATED AT THE POLLUTION.  IN LIEU OF ONE OR MORE OF SENGINEERING STUDIES SUFFICE TO SHOW WHETHER OR NOT THE	ISSIONS OF CONTAMINANTS FROM THIS EMISS HE SAME PLANT OR PREMISES OF THE APPLICATION SUCH TESTS, THE APPLICANT MAY SUBMIT OF HENT TO ACCURATELY ESTIMATE THE RATES OF EMISSIONS OF SUCH CONTAMINANTS. EITHER	SION SOURCE, EITH CANT, COMPLY WITH THER STANDARD TES OF EMISSIONS OF C R. ALONE OR IN COM	ER ALONE OR IN COM APPLICABLE SUBSTA TING INFORMATION O ONTAMINANTS FROM I BINATION WITH CONT	BINATION WITH CONTAMINANTS FROM NTIVE REGULATIONS OF CHAPTER 2, IR THE DETAILS AND RESULTS OF HIS EMISSION SOURCE AND FURTHER AMINANTS FROM OTHER SOURCES
3.	SHOW WHETHER OR NOT THE EMI OTHER SOURCES LOCATED AT TH POLLUTION.  IN LIEU OF ONE OR MORE OF S ENGINEERING STUDIES SUFFICE TO SHOW WHETHER OR NOT THE LOCATED AT THE SAME PLANT OF	SSIONS OF CONTAMINANTS FROM THIS EMISS HE SAME PLANT OR PREMISES OF THE APPLICANT BUCH TESTS, THE APPLICANT MAY SUBMIT OF HENT TO ACCURATELY ESTIMATE THE RATES OF EMISSIONS OF SUCH CONTAMINANTS, EITHER OR PREMISES OF THE APPLICANT, COMPLY WITH	SION SOURCE, EITH CANT, COMPLY WITH THER STANDARD TES OF EMISSIONS OF C R ALONE OR IN COM ITH APPLICABLE SU  ET (E-2) VE	ER ALONE OR IN COM APPLICABLE SUBSTA  TING INFORMATION O ONTAMINANTS FROM I BINATION WITH CONT BSTANTIVE REGULATI  The continuous substantive reculation of the	BINATION WITH CONTAMINANTS FROM NTIVE REGULATIONS OF CHAPTER 2,  IR THE DETAILS AND RESULTS OF HIS EMISSION SOURCE AND FURTHER AMINANTS FROM OTHER SOURCES ONS OF CHAPTER 2, AIR POLLUTION  into dryer(R-2)
3.	SHOW WHETHER OR NOT THE EMI OTHER SOURCES LOCATED AT TH POLLUTION.  IN LIEU OF ONE OR MORE OF S ENGINEERING STUDIES SUFFICE TO SHOW WHETHER OR NOT THE LOCATED AT THE SAME PLANT OF COMBUST and reg	ISSIONS OF CONTAMINANTS FROM THIS EMISS HE SAME PLANT OR PREMISES OF THE APPLICANT BUCH TESTS, THE APPLICANT MAY SUBMIT OF HENT TO ACCURATELY ESTIMATE THE RATES OF EMISSIONS OF SUCH CONTAMINANTS, EITHER OR PREMISES OF THE APPLICANT, COMPLY WITH	THER STANDARD TESTOF EMISSIONS OF CAR ALONE OR IN COMITH APPLICABLE SURFICE (E-2) verse vented at	ER ALONE OR IN COM APPLICABLE SUBSTA  TING INFORMATION O ONTAMINANTS FROM T BINATION WITH CONT BSTANTIVE REGULATI  The directly emission so	BINATION WITH CONTAMINANTS FROM NTIVE REGULATIONS OF CHAPTER 2,  R THE DETAILS AND RESULTS OF HIS EMISSION SOURCE AND FURTHER 'AMINANTS FROM OTHER SOURCES ONS OF CHAPTER 2, AIR POLLUTION  into dryer(R-2)  ource SR-2.

THESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

I.D. NO. FOR	OFFICIAL USE ONLY  PERMIT APPLICATION NO. F
Control of the Contro	GENERAL INFORMATION
NOTE: APPLICANT MUST SUBMIT TWO COPIES (THREE IF LOCATED IN CO  1. CONSTRUCTION PERMIT APPLICATION FORM (SEPARATE APPLI BY AN ATTACHED ADDENDUM).  2. DIMENSIONED DRAWINGS, PLAN, ELEVATION (SECTIONED WH DISTANCES TO NEAREST BOUNDARY OF THE PROPERTY ON WHI	
14. BOILER MANUFACTURER:	15. MODEL NUMBER: 16. SERIAL NUMBER
17. OPERATION TIME OF BOILER:  HRS/DAY DAYS/WK WKS	18. PERCENT OF ANNUAL THROUGHPUT: DEC-FEB % MAR-MAY % JUNE-AUG % SEPT-NOV %
19. RATED HEAT INPUT: THOUSAND BTU	J/HR 20. TOTAL COST OF HEATING EQUIPMENT (NOT INCLUDING INSTALLATION):
21. OPERATING PRESSURE OF BOILER:	22. PERCENT CAPACITY USED FOR SPACE HEATING:
•	GAS FIRED UNITS
23. GAS BURNER MANUFACTURER & MODEL NUMBER:	24. BURNER VOLUME: 25. RETENTION TIME: SE
26. MAXIMUM FIRING RATE: 27. AVERAGE FIRING	
29. AVERAGE SULFUR CONTENT: 30. EST. ANNUAL (	
	ON FIRE UNITS
32. OIL BURNER MANUFACTURER & MODEL NUMBER:	OIL FIRED UNITS  33. BURNER VOLUME:
Iron Fireman A02 - 9.8  34. RETENTION TIME:	432 FT 35. MAXIMUM FIRING RATE: \$6, AVERAGE FIRING RATE:
37. TYPE OF OIL: 38. EST. ANNUAL CONSUMPTION:	SEC 9,000 THOUSAND BTU/HR 4,008 THOUSAND BTU/H  39. AVERAGE HEAT CONTENT OF OIL:
2 Fuel Oil 485,888	LB 19,500 BTU/L 41. AVERAGE SULFUR CONTENT: \$2. AVERAGE ASH CONTENT:
43. OIL BURNER STEAM	
TYPE: ATOMIZING OR ATOMIZING SPECIFY—	XHORIZONTAL ☐ TANGENTIAL
45. OIL BURNER CONTROL: MANUAL AUTOMATIC	AUTOMATIC FULL MODULATION
	COAL FIRED UNITS
46. TYPE OF COAL:	OTHER
47. AVERAGE SULFUR CONTENT: 48. AVERAGE ASH CONTENT:	
51. VOLATILE CONTENTS:	52. EXCESS AIR:
53. MAXIMUM SULFUR CONTENT:	SY WT
	OF COAL BY MINE AND SEAM: 57. ANNUAL CONSUMPTION:
58. TYPE UF FIRING:	1003/1
a.  PULVERIZED DRY BOTTOM  C.  CYCLONE	
b. PULVERIZED WET BOTTOM d. SPREADER NO	
59. DIRECTION OF FIRING: HORIZONTAL VERTICAL	TANGENTIAL CORNER OTHER SPECIFY

1.0	. NO						FUR OFFICIA	IE OSE UNET	PERMIT	APPLICATI	ON NO.	F				
<b>L</b>					<b>(</b> F	PRIOR TO PAS	EXHAUST GA SAGE THROUG	S ANALYSIS ! ANY CONTROL	EQUIPMENT)	<del></del>						
NOT	E: IF THE EN	MISSION SOUR E APPLICANT	RCE WHIC	H IS OMPLE	THE SUBJE	ECT OF THIS	CONSTRUCTION OR EACH SUCH	PERMIT APPLI	CATION IS S	SERVED BY	MORE THA	AN ONE	EXHAU!	ST STAC	CK OR	
CON	TAMINANT	CONCENTRA			EMISSION			DD OF MEASURE		!S		метно	D OF	MON ITOF	RING	
•0.	CARBON MONOXIDE	a.	PPM	ь.		LB/HI	c.				d.					
61.	CARBON DIOXIDE	a. 11%	PPM	b.	156	LB/H		able 9 -	16 Ed.		d.					
62.	CHLORINE	a.	PPM	ь.		LB/H	c.	· • · · · · · · · · · · · · · · · · · ·			d.					
63.	HYDROCAR- BONS AS CH4	a.	PPM	b.	**	LB/H	c.	<del></del>			d.					<del></del>
64.	HYDROGEN CHLORIDE	a.	PPM	b.		. LB/H	c.				d.					
65.	HYDROGEN SULFIDE	a:	PPM	b.		LB/H	c.	<del></del>	<del></del>		d.			<del></del>		
66.	NITROGEN	a.	РРМ	b.	<del></del>	LB/H	c.	<del> </del>			d.					
67.	NITROGEN OXIDES AS NO2	a. 24	PPM	b.	0.49	LB/H	c.	e chao. 9	of		d.					
68.	SULFUR DIOXIDE	a. 11	PPM	b.	0.287	LB/H	c. Air	Pollutio - 1967		1	d.					<del></del>
69.	OTHER (SPECIFY)	a.	PPM	ъ.	· · ·	LB/H	c.	2701	•		d.					
70.	PARTICULATE MATTER	a. 045	GRAIN SCF		Est. <i>1</i> .075		c.				d.					<del></del>
71.								EACH COMPONENT	F (COMMON NA	ME SHALL	BE GIVEN	N IF CH	EMICA	L NAME	IS UNK	NOWN):
٠.	Carbon r	article	es ass	sume	d to l	oe maior	portio	n of part	i culate	<b>.</b>						
	our son p						Pozozo	- VI PUL		<u></u>						
IOT	E: THIS SECT	TION TO BE (	COMPLETE	D ONL	Y IF EMIS	SSIONS ARE E	KHAUSTED DI	RECTLY TO THE	ATMOSPHERE	WITHOUT A	ANY CONTI	ROL EQU	JIPMEN	IT:		
72.	HOW EMISSION	ONS ARE EXH	AUSTED:	VENT		73. GAS EX			FPS	<del>,</del>	S EXIT TE					o <sub>F</sub>
75.	DRAFT CONTE		☐ MAN		; 	1 AUTOMATIC	П В/	AROMETRIC	OTHER (	SPECIEY)				<del></del>		
76.		THE STACK				REST PLANT B	DUNDARY	77. HEIGHT		<u>`</u>	OVE GRADE	E:				FT.
78.		STACK OR VE	NT ABOVE	ROOF	:	<del></del>	FT.	79. HEIGHT	OF TALLEST	BUILDING	WITHIN 1	150 FEE	T:			
80.	YOUR DESIGN	NATION OF S	TACK OR	VENT:			FT.	81. AREA OF	STACK OR V	ENT AT EX	XIT:				· · · ·	FT.
82.		CATION, THE						EXHAUSTED THROUGH OTHER EQUI								БҮ
	TOTAL NUMBI	ER OF PAGES	IN EXHI	BIT G	·				•							~~
83.	NITROGEN, A	AND HYDROCAL	RBONS (A	S MET	HANE) EMI	TTED FROM A	L SOURCES	OUNTS OF PARTI LOCATED ON THE OF THE PLANT	E PLANT OR P	PREMISES,	INCLUDI:	NG THE				
	MATERIAL		ONE-H	OUR M	AX. AMOUN	ITS MATERIAL			MAX. AMOUNTS	MATERIA	L		ONE-		AX. AMO	UNTS
	PARTICULAT	TE MATTER		<u>35</u>	.2	LB SULFUR D	IOXIDE	_1	Г <u>•11</u> Т	NITROGE	N OXIDES	AS NO <sub>2</sub>		_2	.45	_LB
	I HYDROCARBO	ONS AS CHA	1			LB CARBON M	ONOXIDE	1	1 R	3 1.114	- 13h	lhe	1/h~	mav		l



# STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR WILLIAM L. BLASER, DIRECTOR

SWIFT CHEMICAL CO.  TELEPHONE NUMBER: 618/271-5650  8. TELEPHONE NUMBER: 618/271-5650  618/874-7811  STREET ADDRESS OF OWNER:  9. STREET ADDRESS OF EMISSION SOURCE:  2501 N. Kingshighway  CITY:  10. CITY:  11. LOCATED WITHIN CITY LIMITE	PERMIT NO. DATE  PARE OF OWNER: SWIFT CHEMICAL CO.  7. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM DUNER): SWIFT CHEMICAL CO.  15 TELEPHONE, NUMBER: 3/2/431-2533  8. TELEPHONE NUMBER: 618/2/1-5650 618/21-7811  STREET ADDRESS OF OWNER: 111 W. Jackson Blvd.  9. STREET ADDRESS OF EMISSION SOURCE: 2501 N. Kingshighway  CITY: Chicago  STATE: 10. CITY: The UNDERSIGNED MERSERY FILES THIS COMPLIANCE PLAN RELATING TO THE COULTMENT DESCRIBED HEREIN AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT. AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPRICATION REMAINS TRUE, CORRECT AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS PROGRAM DESCRIBED IN THIS COMPLIANCE PLAN AND RELATED PROJECT COMPLETION SCHEDULES.  OWNER (IF INDIVIDUAL)  SIGNATURE  DATE  SWIFT CHEMICAL CO. 1/15/73  EXACT CORPORATE DATE THE OF FICER TITLE OF OFFICER  TOWN IDENTIFICATION: "IMBER (OPTIONAL)  A CORPORATE DATE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF ITS BOARD OF DIRECTORS AUTHORIZING THE OPTICES THAT THE OFFICER THE OFFICER TITLE OF OFFICER  THE OFFICER SIGNATURE TO BE COVERED THEREUNDER.					····					
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	equipme include	entent shall submit a process flow diagram depicting all emission sources and all air pollution control ent covered by this Compliance Plan and related Operating Permit application. The diagram shall is labels for each source and equipment, and shall set forth maximum flow rates for (1) all process ent, (2) all air pollution control equipment, (3) all emission sources and (4) all stacks and vents.
	(If thi	s information has been previously submitted with the Operating Permit application, the applicant of tresubmit the diagram but may reference appropriate drawing number(s)).
	Number	of sheets:2 Drawing Number(s):102 & 104pages 34 & 35
15.	Environ mation and eng in the shall b	clicant shall submit a detailed description of the equipment he proposes to install to comply with the imental Protection Act and applicable substantive Regulations. This description shall include inforas to the technical reasonableness of the proposed air pollution control equipment or control techniques, innering reports or studies sufficient to prove that the installation of this equipment will result operation being in compliance with the Act and applicable substantive Regulations. This equipment we accurately and clearly labeled on the process flow diagram. Detailed information for each item of the submitted in one of the following three ways:
	(a)	If the applicant has entered into a binding agreement or contractural obligation to purchase specific items of equipment, he shall complete applicable Construction Permit application forms, and shall note on page one (1) of such forms "This equipment is purchased, but not installed, as part of our Compliance Plan for the operation, and is indicated on drawing (complete as necessary) as item (complete as necessary)." The applicant shall submit a list of those forms so marked and attach to this Plan as Exhibit N.
	(b),	Total number of pages in Exhibit N:
		Total number of pages in Exhibit P:
•	,	If the aprlicant has selected the type of air pollution control equipment or control techniques but has not selected specific items of equipment, he shall (A) submit performance specifications which detail the performance of the equipment to be procured;  (B) provide a test plan which will detail how the equipment, purchased pursuant to a given specification, will be tested to prove that the equipment meets the applicable performance specifications; and (C) attach this information to this Plan as Exhibit Q.
		Total number of pages in Exhibit Q:
cont	rol equi	licant shall submit a Project Completion Schedule (Form APC-98) for each item of air pollution pment or control technique. The final compliance date of such Project Completion Schedule shall than the applicable date described in Chapter 2: Air Pollution.
Tota	l number	of Forms APC-98 submitted with this application:

9 9



#### STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR
WILLIAM L. BLASER, DIRECTOR

					5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	PROJECT COMPLETION SCHEDULE		I.D. NO. PERMIT NO. DATE	FOR OFFICIAL 0	USE ONLY
. NA	SWIFT CHEMICAL CO.	2. NAME OF	CORPORATE DIVISI	ON OR PLANT (1F	DIFFERENT FROM OWNER):
. STI	REET ADURESS OF EMISSION SOURCE: 2501 N. Kingshighway	4. CITY:	Fairmont.Cit	.v	
. NAM	ME OF AUTHORIZED PERSON PREPARING THIS FORM:	6. SIGNATU		-5	
	UR IDENTIFICATION NUMBER:	8. DATE TH	IS FORM 98 PREPAR anuary 15,	ED: 1973	
	RATING PERMIT NUMBER:	10. CONSTR	UCTION PERMIT NUM		
	American Oil Company, Standard Oil Div sulfur. To comply with Rule 204(C)(2)( content of the No. 2 fuel oil will be r	B) on Dec	cember 31, 3	1973, the s	ulfur
	sulfur. To comply with Rule 204(C)(2)(	B) on Dec	cember 31, 3	1973, the s	ulfur
2. 10	sulfur. To comply with Rule 204(C)(2)(content of the No. 2 fuel oil will be r give an emission of only 0.287 lbs. SO <sub>2</sub> .  DENTIFY THE LABEL OF THIS ITEM OF EQUIPMENT AS GIVEN ON THE APPROXIMATION.	B) on Deceded to /10 BTU	cember 31, : c less than	1973, the s	ulfur
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MOTE: THE TIME ELAPSED BETWEEN TWO CONSECUTIVE EVENTS LISTED IN ITEM 15 ABOVE SHALL NOT EXCEED 6 MONTHS. IN CASE CONSECUTIVE DATES EXCEED 6 MONTHS YOU MUST INTRODUCE AN INTERIM EVENT OR EVENTS SO THE TIME INTERVAL BETWEEN ANY TWO CONSECUTIVE EVENTS IS 6 MONTHS OR LESS.

\* original boiler cost in 1965

\*\* to meet rules no equipment changes
will be required. Supplier will provide
lower S content fuel



## STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR WILLIAM L. BLASER, DIRECTOR

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		FOR OFFICIAL USE ONLY	ภิ
	I.D. NO.		
	PERMIT NO. DATE	P2100690	<u>'</u> ]
2. NAME O	F CORPORATE DIVIS	SION OR PLANT (IF DIFFERENT FROM OWNE	ĒR)
4. CITY:			_
E. S	t. Louis, I	11. 62201 (Fairmont Cit	<u>у)</u>
on of solid wast	e material and a	ttach this description to this	
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ake, fine ash, c to this addendum	inders, powder, s as Exhibit T.	sludge, etc.) at the applicant's	
ht percentage, o process has back into	f the solid waste no solid w the process	e and attach to this vaste as such,	
rated by this op (If these interv	eration on each of al bases are not.	of the following time applicable to your	
eable - see	note under	r Item 7	
itary landfill p	ermitted by the E	Environmental Protection	
such site.			
NAME			
in a sanitary 1	andfill for which	h an Agency permit application	
s site:	<del></del>		
at the applican	t's plant or prem	nises?	
to this addendu	m as Exhibit W.		
		æ	
emote site for r	euse or recycling	g? 🔲 Yes 🛛 No	
ss and attach to	this addendum as	s Exhibit X.	
Yes 🗵 No			
incinerator and	attach to this a	addendum as Exhibit Y.	
	·		
described in Qua and location of	estions 5 through the disposal faci	n 9 of this addendum, ility, and attach to	
lt W			
	ake, fine ash, come to this addendum or solid wast ake, fine ash, composed into the solid process has back into rated by this op (If these intervents justify such site.  NAME  in a sanitary landfill process site:  at the applicant to this addendum demote site for ress and attach to the solid process and attach to described in Quand location of solid process.	permit No. DATE  2. NAME OF CORPORATE DIVI  4. CITY:	DERMIT NO.  DATE  2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWN)  4. CITY:  E. St. Louis, Il. 62201 (Fairmont Cit; on of solid waste material and attach this description to this  ake, fine ash, cinders, powder, sludge, etc.) at the applicant's to this addendum as Exhibit T.  At other process has no Solid waste and attach to this  brocess has no Solid Waste as Such, back into the process rated by this operation on each of the following time (If these interval bases are not applicable to your must justify such selection.) Attach your answer to  beable - see note under Item 7  itary landfill permitted by the Environmental Protection  such site.  NAME  in a sanitary landfill for which an Agency permit application  s site:  at the applicant's plant or premises? Yes \( \backsquare\) No  to this addendum as Exhibit W.  emote site for reuse or recycling? \( \backsquare\) Yes \( \backsquare\) No  ss and attach to this addendum as Exhibit X.  Yes \( \backsquare\) No  incinerator and attach to this addendum as Exhibit Y.  described in Questions 5 through 9 of this addendum, and location of the disposal facility, and attach to

## DESCRIPTION OF THE PROCESS WHICH RESULTS IN THE PRODUCTION OF SOLID RECYCLE(WASTE)MATERIAL

Referring to the Process Flow Diagram (Drawing No. 102) Page 34, a maximum of 18,000 scfm of air is drawn through a rotary tube dryer(R-2) to remove moisture from a showering and cascading mass of fertilizer (M.G.) which was mixed and granulated in the ammoniator-granulator(R-1). The moisture content of the M.G. as it enters the dryer(R-2) will range from 5% to 7%. In drying this is reduced to a desired 1.00 to 2.0% depending on the M.G. formulation. The product dryness is only reduced to that level which will insure good product quality in subsequent storage and use.

Dryer air flow entrains particulate during its passage through the showering M.G. and is carried by the air stream into a dry collector of the conventional cyclone type (CY-1). See Exhibit 6, 7, & 8, Pages 29, 30, & 31, for data on particulate size range. Particulate collected therein is conveyed immediately and continuously back to the ammoniator-granulator (R-1) as a part of the return fines or recycle load.

Mixed fertilizer(M.G.) subsequent to drying is then sized into 3 separate fractions by being subjected to screening on an enclosed double deck screen(SC-1). Material larger than the top deck screen mesh, usually a nominal 6 mesh(3.36 mm opening), is diverted to a crusher(CR-1) and then returned directly again to the top section of the double deck screen(SC-1). Material retained on the lower deck of screen SC-1 is the desired product size, nominally a -6+16 mesh, and this discharges to a rotary tube cooler(R-3). Material which passes the 16 mesh (1.19 mm opening) of the lower deck constitutes additional fines which are returned to the ammoniator-granulator(R-1) as part of the recycle load.

The on-size warm product passes through the rotary tube in a showering and cascading fashion counter-currently to a maximum flow of 12,000 scfm of ambient air which primarily cools and secondarily, further drys the product prior to conveying to storage. The flow of air passing through the cooler (R-3) will entrain airborne particulate which is to a large extent captured in dry collector CY-2, a conventional cyclone. The fines from this cooler cyclone collector (CY-2), like those from the double deck screen (SC-1), and the dryer cyclone (CY-1), are gravity fed through enclosed chutes to a belt conveyor discharging these fines along with fresh dry solids feed into the ammoniator-granulator (R-1). The quantity of recycle fines will vary depending on the particular grade of mixed goods (M.G.) being formulated and the physical characteristics of individual ingredients. The amount of return cannot be stated with exactitude for those reasons. However, the weight of fines recycling will range from 0.5 to 2.0 tons per ton of product produced, but for most grades the recycle rate is about 0.75 to 1.0 ton per ton of M.G. conveyed to storage.

## EXHIBIT T

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## DESCRIPTION OF RECYCLE MATERIAL FROM DRY COLLECTORS

There is no waste of material from the dry collectors. Recovered fines constitute dry solids such as superphosphate, ammonium sulfate, potassium chloride, dolomite, etc. These are returned to the ammoniator-granulator as part of the solids recycle. Particulate material which escapes the dry collectors is almost entirely recovered in a subsequent wet scrubber (Rotoclone SR-2) - see drawing No. 102, Page. These solids are the are recovered by return of the concentrated scrubber liquid to either the ammoniator-granulator(R-1) or to the dryer (R-2) or a portion to both. All the solids material entering the dry collectors is recycled. The small fraction escaping is thoroughly documented in Exhibit-B(3) "A Summary of Stack Emission Tests on Dry/Cooler Scrubber Emission Source #12, Page 14".

2610(3)9

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### DESCRIPTION OF RECLAIMING PROCESS

(This is a repetition of description given in the latter portion of Exhibit S):

"The fines from this cooler cyclone collector (CY-2), like those from the double deck screen (SC-1) and the dryer cyclone (CY-1), are gravity fed through enclosed chutes to a belt conveyor discharging these fines along with fresh dry solids feed into the ammoniator-granulator (R-1)"

Particulate which is not captured in the cyclones is almost completely captured in the wet scrubber and the scrubbing solution is reclaimed by return to the ammoniator-granulator (R-1) and dryer (R-2).

ID:

163 050 AAB ESTECH GENERAL CORP. COMPANY NAME:

PERMIT NUMBER: QZ 10 0690

1/0	SOURCE			CONTROL		STACK
NO.	NAME	PG	16.	NAME	PG	NO.
001	AMMONIATOR / GRANDLATE	1924	COI	WET CYCLONE	1935	501
DOZ	DRYER & COOLER	1931	COZ	CYCLONE + CYCLONE		
_		_		+ BOTO CLONE		
003	BOILER	1943				
004	STORAGE TANK	1959				
005	STORAGE TANK	1959				
rong	STORAGE TANK	1964				
	······································					
		galast and				
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1/						

## LOG OF WATER WELL

Property owner free & Clinic	wolf. E.	Drou.	Well N	?:
Drilled by Thorns (mo	man)		Year	1940
Formations passed the	(/		Thick- ness	Depth of Bottom
clark soul	292.41		10	ALTERNATION AND AND ADDRESS
Hellow alrey	25-61-32-3		7	20
Fandy loan			15	325
Stroty Sand	•			40
Extremely fine sond	7.25		10	50 -
Sand			10	60
At ding sand			10	70
			100	
Coans sand	1		5	75
Eft. fine dirty sa	nd"		15	90
Coarse Sand			25	115
и и			5	120
and inch Size hole below casing in	fron ich. Static lev		to	
rested capacityg	The second secon	Temperatu	re	•]
Water lowered toft	in. in_	h	rs.	mi
Length of test hrs.	min. Scre	en		
Really in the Armer and	e di	Status 6	40.	
SlotDiamLengt		Bottom se		
				ec. 3
Fownship name	Elev.			ec
Description of location SW, SW	3	7 A 4 A 4	r	'wp. 2/
TaN ROW		X	- - -  -	1ge. 9W
Signed C. CLAIR NO EN	County		Clair	CONTRACTOR OF
Copy for Illinois State Geological Survey	Index	J=	2N-91	Work of A

## ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Notions
Top alum sand-white		0	7
Clay		7	29
Fine sand, brown		29	31
Sand		37	74
Sand coarse		74	115
	- 1		TD
Chief aquifer - sand and gravel	9		
Hole record 38"			4.
Casing 20" outside diameter steel + 1 94.6', 0.0375 wall thickness	.6'-		
Screen record Johnson stainless steel 20", 94.6-115"	,		
Gravel pack: to 38' above screen, WB 4	)		
		n	
			7
			100
		1.4	
		200	
		3.00	
*CF			
*SE corner of plant, Near East St. Loui	s.		
	31		
NO ENVELOPE	- W	1.4	

FARM	Allied Unemical No. 13
DATE DRILLE	1960 COUNTY NO. 360
AUTHORITY	State Water Survey (W.H. Baker)
	420' TM
LOCATION *	250' S line, 1000' W line of SW
COUNTY	ST. CLATR:



3-2N-9W

TOWN Fairmont COMPANY C. S. Wise

R. 9W

COMPANY C. S. Wise
FARM General Chemical Co. No.
AUTHORITY C.S. Wise written log
ELEVATION 419 topo.
COLLECTORITE Land DATE DRILLED 1924

CONFIDENTIAL

SW SW SW

- 1	1200.00	1500	100	100
	A **** \$ **1	Pin's	A. 1.4	100
-	-	40	1000	1.50
8		100	3747	1.6
		19.55	100	Takes!
31		9.30	44.75	-7.5
-1	-	***	-	-
ा	7.4	55 F	+ 40.6	50
া	400		1000	24.3
21	-	-		

(	OUNTY NO.1442		Thick	ness	Der	oth -
No	UUNII 110.1STRATA	30.7	Feet	In.	Feet	In.
	Soil Clay, yellow Gumbo Quicksand Sand, fine Sand, coarse Sand, coarse	l gravel	6 10 6 30 18 20 25		6 16 22 52 70 90 115	
	The second secon					Sign and A
	4 wells					
	3.30 ·					
	NO ENVELOPE			<b>1</b> F		

County	ST	. CL	AIR
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Index No. --

0403

T.-DRILL RECORD

4 Illinois Geological Survey, Urbana.

17	LOG	OF	WAT	ER	WEL	L
26	The second section is					

Property owner Alineis Farm Scapple		
	Well I	lo
Drilled by H. L. Water (newl+7 in a)	Year	21,1948
Formations passed through	Thick-	Depth of Bottom
mud	/2	12
mid Sand COUNTY AL	18	=0
Copre Sand COUNTY NO. 1957	15	60
med sand + frek	5	45
24 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 5	70
med. sand	5	25
Coarse sand + gravel	5	80
	- 3	04
Med sand , rock	5	85
Time sund + north	5	90
Coarse sand + gravel		95
" + ryale		の主要を
[Continue on back if necessary]	13	100 74
Finished in Morn Discussion from Cased with Sinch black from and inch from	1 0 to <u>80</u>	ft,
Size hole below casing 10" inch. Static level from		a total francisk and a file
그 아이들 가장 하는데 아이들은 사람들이 되었다면 하는데	AND TENEDS IN	ft.
ested capacitygal. per min. Temper	ature	•F.
Vater lowered to ft in, in	hrs.	min
	A CONTRACTOR OF THE SECOND	
anoth of toot		
그 그 아이트 그렇게 가게 하고 있다면 가는 아무지 않는데 하는데 하다면 하는데	The second secon	
그들이 마스트라를 하게 하고 있다. 이번 바람이 아름이 되면 아랫동안 이번 하게 되었다면 하지만 하는 얼마나 하는 것은 사람들이 되었다는 것이 없었다. 이번 점이 되었다.	The second secon	-1001 <sub>ft</sub>
lot 40 Diam. 10" Length 21'4" Bottom [Show location in	set at 80	-100 'ft,
lot 40 Diam. 10" Length 21'4" Bottom [Show location in ownship name Flow 420' TM	set at 80 Section Plat]	-100 <sup>1</sup> 7t.
lot 40 Diam. 10" Length 21'4" Bottom [Show location in cownship name Elev. 420' TM cyped information from S.W.S. 1-73	set at 80 Section Plat]	c3
Cownship name Elev. 420'TM Cyped information from S.W.S. 1-73 Description of location	set at 80 Section Plat]	
Slot 40 Diam. 10" Length 21'4" Bottom [Show location in Elev. 420'TM [Syped information from S.W.S. 1-73]	set at 80 Section Plat]	c <u>3</u> vp <i>T2-N</i>
Slot 40 Diam. 10" Length 21'4" Bottom [Show location in Sevent Security of Sec	set at 80 Section Plat] Set Tr	c_3
lot 40 Diam. 10" Length 21'4" Bottom [Show location in ownship name Elev 420' TM [Syped information from S.W.S. 1-73] escription of location	set at 80 Section Plat] Set Tr	c_3_ vp <i>T2-N</i> _